



441103

REMEDIAL ACTION SEMI-ANNUAL MONITORING REPORT

**2nd HALF – 2011
(30 of 73)**

**SKINNER LANDFILL SITE
BUTLER COUNTY
WEST CHESTER, OHIO**

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1.0 INTRODUCTION

1.1 GENERAL INFORMATION

This semi-annual monitoring report was prepared for the Skinner Landfill Superfund Site located in West Chester, Butler County, Ohio in accordance with the Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003 as revised by the amended requirements as set forth in the Petition to Reduce Monitoring Report submitted by Earth Tech in April 2008 and the conditional approval letter issued by the USEPA dated November 24, 2009. The O&M-LTP Plan was prepared to meet the requirements of the Record of Decision (ROD) dated June 4, 1993, the Statement of Work (SOW) dated April 6, 1994, the 100% Final Remedial Design dated June 21, 1996 and the Consent Decree dated April 7, 2001.

The remedial action (RA) post-construction O&M monitoring period began with the third quarter of 2003 and extends for a period of 30 years. The Petition to Reduce Monitoring and associated conditional USEPA approval included a reduction in the number of groundwater and surface water samples required for each sampling event, as well as a change in the required sampling frequency from quarterly to semi-annual. This report documents the results of groundwater and surface water monitoring conducted during the second half of 2011, which is the 30th of 73 sampling events to be conducted during the 30-year monitoring period.

1.2 SITE LOCATION AND DESCRIPTION

Skinner Landfill is located approximately 15 miles north of Cincinnati, Ohio near West Chester, Butler County, Ohio in Township 3, Section 22, Range 2. The site is located along Cincinnati-Dayton Road, as shown in Figure 1. The site is bordered on the south by the East Fork of Mill Creek, on the north by wooded land, on the east by a Norfolk Southern Railway Company right-of-way, and on the west by a gravel driveway.

The site is located in a highly dissected area that slopes from a till-mantled-bedrock upland to a broad, flat-bottomed valley that is occupied by the main branch of Mill Creek. Elevations on the site range from a high of nearly 800 feet above mean sea level (MSL) in the northeast, to a low of 645 feet above MSL near the confluence of Skinner Creek and East Fork of Mill Creek. Both Skinner Creek and the East Fork of Mill Creek are small, intermittent shallow streams. Both of these streams flow to the southwest from the site toward the main branch of Mill Creek.

In general, the site is underlain by relatively thin glacial drift over inter-bedded shale and limestone of Ordovician age. The composition of the glacial drift ranges from intermixed silt, sand and gravel, to silty sandy clays with a thickness ranging from zero to over forty feet. The sand and gravel deposits comprise the hills and ridges and are encountered near the surface of the central portion of the site. The silts and clays usually occur as lenses in the sands and gravel or directly overlie bedrock.

1.3 SITE HISTORY AND BACKGROUND

The property was originally developed as a sand and gravel mining operation and was subsequently used as a landfill from 1934 to 1990. According to USEPA studies, materials deposited at the site include demolition debris, household refuse and a wide variety of chemical wastes. The waste disposal areas include a now buried former waste lagoon near the center of the site and a landfill.

According to USEPA studies, the buried lagoon was used for the disposal of paint wastes, ink wastes, creosote, pesticides, and other chemical wastes. The landfill area, located north and northeast of the buried lagoon, received predominantly demolition and landscaping debris.

In 1976, the Ohio EPA (OEPA) initiated an investigation of the site. In 1982, the site was placed on the National Priority List by the USEPA based on information obtained during a limited investigation of the site. A Phase II Remedial Investigation was conducted from 1989 to 1991 and involved further investigation of groundwater, surface water, soils and sediments. Both a Baseline Risk Assessment and Feasibility Study (FS) were completed in 1992.

The Phase II Remedial Investigation revealed that the most contaminated media at the site is the soil in the buried waste lagoon. Migration of the landfill constituents has been limited, and the Phase II Remedial Investigation concluded that there had been no off-site migration of landfill constituents via groundwater flow.

In the Record of Decision (ROD), dated June 4, 1993, the USEPA selected a remedy for the site consisting of multi-media capping of the landfill and the buried waste lagoon, and collection and treatment of the groundwater. The ROD also required an investigation to determine the feasibility for soil vapor extraction (SVE) in the granular soil adjacent to the buried lagoon.

The Remedial Design (RD) Investigation performed in 1994 was implemented to collect data required to assess the feasibility of the SVE and to design the multi-media cap and the groundwater extraction/treatment systems. The Remedial Design was submitted to USEPA on June 21, 1996 outlining the cover design and groundwater interception system design. Based on the RD investigation, the installation of an SVE system was determined to be unfeasible.

Construction of a groundwater interception system (GIS) and engineered landfill cover system began in April 2001 and was substantially completed in September 2001. The USEPA conducted the pre-final construction inspection on September 27, 2001, the final construction inspection on March 27, 2003 and the second 5-Year Review in March 2004.

2.0 SAMPLING METHODS

This semi-annual monitoring event was conducted in general accordance with the following documents shown with the date of the USEPA-approved final version:

- Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003 as revised by the Petition to Reduce Monitoring dated April 2008 and conditionally approved by the USEPA in November 2009, and

- O&M Health and Safety Plan, revised September 2010.

There were no deviations from these work plans.

3.0 RESULTS

3.1 GROUNDWATER LEVELS

The groundwater elevation data obtained from the monitor wells, piezometers and selected gas probes for the 3rd and 4th quarters of 2011 is presented on Table 1 with the corresponding potentiometric surface maps provided in Appendix A. The groundwater hydraulic gradient calculated from data collected was 0.0856 ft/ft in September 2011 and 0.0807 ft/ft in December 2011.

The average hydraulic gradient documented in the Remedial Action Baseline Monitoring Report, dated March 2005, is calculated to be 0.13 ft/ft.

3.2 GROUNDWATER-WASTE MONITORING

Historic data for piezometers P-9R to P-12R and results of the piezometer groundwater levels obtained this semi-annual period are provided on Table 2. Based on measured water levels, the groundwater level is above the waste elevation at piezometers P-9R, P-10R, and P-11R.

3.3 GROUNDWATER ANALYTICAL RESULTS

A summary of target compound list (TCL) and target analyte list (TAL) parameter concentrations encountered above the contract required quantitation limit (CRQL) and revised modified trigger level is provided on Table 3. A summary of the laboratory analytical results have been presented on a per well basis in Appendix B to assist in identifying temporal detection patterns. A report of each data set reduction, validation and assessment procedure conducted on an analytical-set basis in accordance with the O&M-LTP Plan quality assurance project plan (QAPP) is included in Appendix C.

In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in groundwater above the CRQL.

Of the 16 TAL parameters that have corresponding trigger levels, all groundwater TAL concentrations were below the corresponding trigger levels for the second half of 2011.

3.4 SURFACE WATER ANALYTICAL RESULTS

Surface water was analyzed during the 2nd half of 2011 at SW-50 and SW-52, the two surface water (SW) sample locations of the East Fork of Mill Creek (SW samples). Landfill cap surface water drainage samples (SWD samples) were not collected due to lack of flow.

A summary of TCL and TAL parameter concentrations encountered above each corresponding CRQL and revised modified trigger level is provided on Table 4. A summary of laboratory analytical results is presented in Appendix B. The summary tables are presented on a sample location basis. The validated laboratory analytical data is provided in Appendix C.

3.5 GENERAL SITE OBSERVATIONS

This section provides a description of observations made in or around the 16-acre fenced area during the sampling period associated with other activity which may impact the project site. There was nothing unusual observed during the second half of 2011.

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 Groundwater Monitoring Wells
 Creek Surface Water Sampling Locations
 Run Off Surface Water Sampling Locations

VALIDATED LABORATORY ANALYTICAL RESULTS	C
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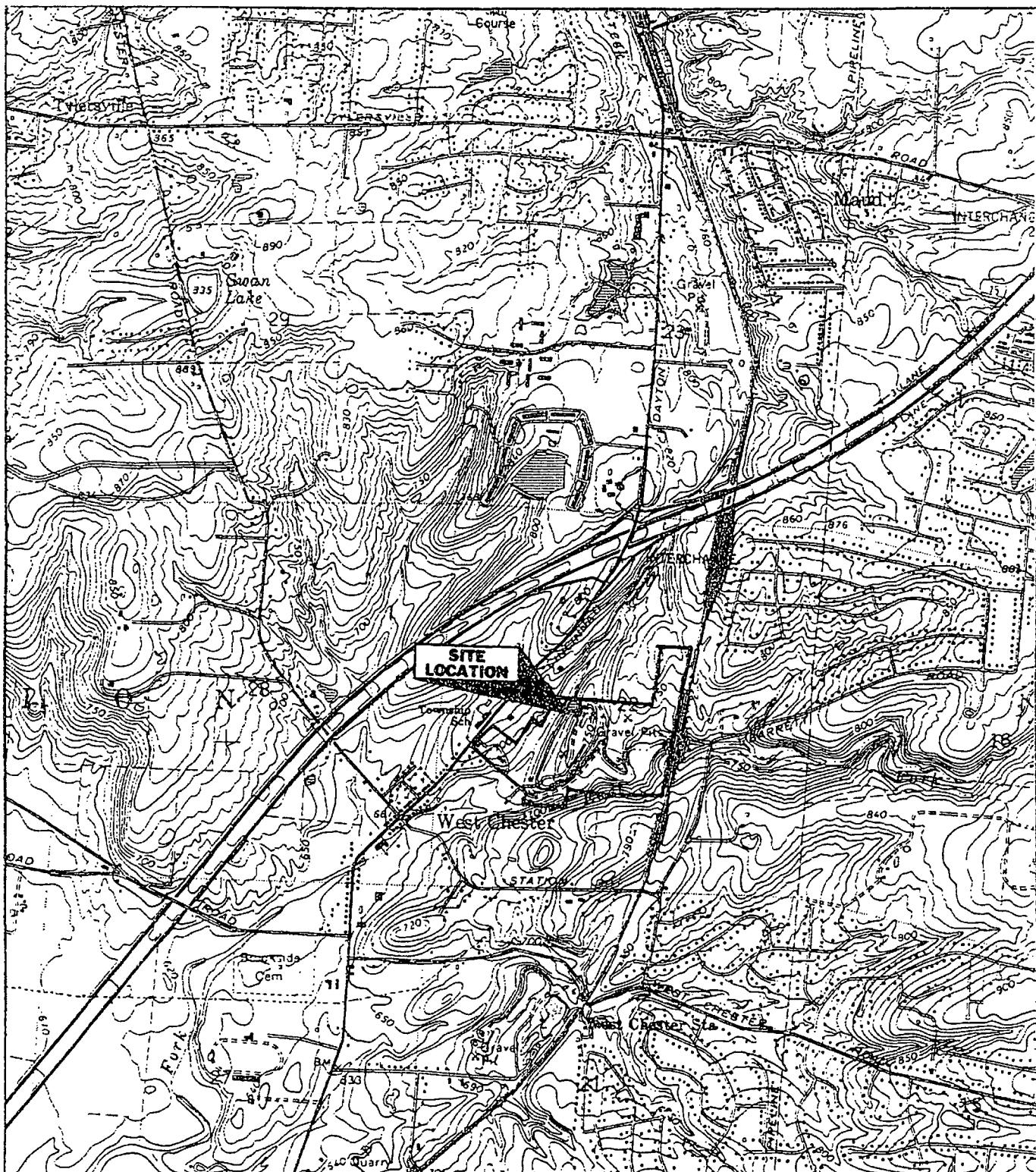
LIST OF ACRONYMS

BMR	Baseline Monitor Report
BCDES	Butler County Department of Environmental Services
bgs	Below Ground Surface
CD&D	Construction Debris and Demolition Waste
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CGI	Combustible Gas Indicator
CHSD	Corporate Health and Safety Director
CLP	Contract Laboratory Program
cm/sec	Centimeters Per Second
CO	Carbon Monoxide
CP	Contingency Plan
CQA	Construction Quality Assurance
CQAC	Construction Quality Assurance Consultant
CRZ	Contamination Reduction Zone
CRQL	Contract Required Quantitation Limit
CSDI	Contaminated Soils Design Investigation
CY	Cubic Yard
CZ	Control Zone
DSW	Division of Surface Water (OEPA)
DSR	Division Safety Representative
EPA	Environmental Protection Agency
EZ	Exclusion Zone
FID	Flame Ionization Detector
FML	Flexible Membrane Liner (low density polyethylene)
FSP	Field Sampling Plan
FTB	Film Tearing Bond
ft	Feet
ft/sec	Feet Per Second
GCL	Geosynthetic Clay Layer
GCAL	Gulf Coast Analytical Laboratories Inc.
GIS	Groundwater Interceptor System
gpd	Gallons Per Day
gpm	Gallons Per Minute
GWDI	Groundwater Design Investigation
HAP	Hazardous Air Pollutant
HASP	Health and Safety Plan
HDPE	High-Density Polyethylene
HSM	Health and Safety Manager
IDLH	Immediately Dangerous to Life or Health
IRM	Interim Remedial Measures
kg/d	Kilograms Per Day
lb/day	Pounds Per Day

LEL	Lower Explosion Limit
LF	Lineal Feet
LLDPE	Linear Low-Density Polyethylene
μ	Micron
$\mu\text{g/l}$	Microgram per Liter
MSL	Mean Sea Level
NIOSH	National Institute for Occupational Safety and Health
NO_x	Oxides of Nitrogen
NWI	National Wetland Inventory
O_3	Ozone
OAC	Ohio Administrative Code
ODNR	Ohio Department of Natural Resources
OEPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PID	Photoionization Detector
PLC	Programmable Logic Controller
PM-10	Particulate Matter less than 10 microns
PRP	Potentially Responsible Party
PPE	Personal Protective Equipment
psi	Pounds Per Square Inch
PQL	Practical Quantitation Limit
QAPP	Quality Assurance Project Plan
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RA	Remedial Action
RD	Remedial Design
RHSS	Regional Health & Safety Specialist
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RPM	Remedial Project Manager (USEPA)
RPO	Resident Project Observer
SI	Site Inspection
SF	Square Feet
SLWG	Skinner Landfill Work Group
SO_2	Sulfur Dioxide
SOP	Standard Operating Procedure
SOW	Statement of Work
SPCC	Spill Prevention Control and Counter Measure Plan
SSO	Site Safety Officer
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
SZ	Support Zone
TAL	Target Analyte List

TCL	Target Compound List
TDH	Total Dynamic Head
TLV	Threshold Limit Values
TSS	Total Suspended Solids
TWA	Time Weighted Average
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Services
USGS	United States Geological Survey
VOC	Volatile Organic Compound
yr	Year
WZ	Work Zone

FIGURES



0 2000
FEET



SKINNER LANDFILL

SITE VICINITY MAP

BUTLER COUNTY, OHIO

AECOM

TABLES

TABLE 1
Groundwater Elevation Summary
Skinner Landfill
West Chester, Ohio

2nd Half 2011

Well Type	Location	Well Use	Ground Surface Elevation (MSL-feet)	Top of Casing Elevation (MSL-feet)	September 21, 2011		December 20, 2011	
					Depth to Water (feet from top of casing)	Groundwater Elevation (MSL-feet)	Depth to Water (feet from top of casing)	Groundwater Elevation (MSL-feet)
Piezometers	P-1	G	685.42	687.65	11.57	676.08	8.55	679.10
	P-2	G	688.54	690.42	13.37	677.05	12.62	677.80
	P-3R	G	691.83	693.69	25.17	668.52	24.67	669.02
	P-4	G	700.32	702.63	6.61	696.02	4.38	698.25
	P-5	G	708.20	710.65	14.15	696.50	12.35	698.30
	P-6	G	707.45	710.59	13.33	697.26	11.26	699.33
	P-7	G	719.08	721.83	Dry	Dry	Dry	Dry
	P-8	G	747.70	749.91	29.96	719.95	29.68	720.23
	P-9R	G	760.12	763.58	18.00	745.58	15.63	747.95
	P-10R	G	761.87	765.84	26.26	739.58	25.41	740.43
	P-11R	G	760.39	763.38	26.15	737.23	26.07	737.31
	P-12R	G	750.11	753.60	37.14	716.46	35.28	718.32
Groundwater Monitoring Wells	GW-06R	S	683.89	685.91	12.30	673.61	8.19	677.72
	GW-07R	S	683.46	683.06	10.12	672.94	4.46	678.60
	GW-24	G	693.32	695.21	18.93	676.28	18.46	676.75
	GW-26	G	696.61	698.28	29.88	668.40	28.60	669.68
	GW-30	G	675.63	677.62	9.90	667.72	10.57	667.05
	GW-58	S	684.03	686.53	13.81	672.72	7.66	678.87
	GW-59	S	684.35	687.38	9.35	678.03	6.61	680.77
	GW-60	S	689.12	692.38	14.40	677.98	8.40	683.98
	GW-61	S	687.38	690.86	13.55	677.31	13.11	677.75
	GW-62A	S	690.19	692.38	15.01	677.37	17.59	674.79
	GW-62B	S	690.57	693.13	12.10	681.03	12.19	680.94
	GW-63	S	698.87	702.50	10.88	691.62	5.45	697.05
	GW-64	S	700.45	703.88	12.96	690.92	12.04	691.84
	GW-65	S	703.83	706.88	16.29	690.59	10.90	695.98
	GW-66	G	686.82	689.41	9.32	680.09	6.19	683.22
Gas Probes	GP-6	G	772.18	774.65	16.87	757.78	12.89	761.76
	GP-7	G	749.83	752.65	Dry	752.65	8.06	744.59

MSL - Mean Sea Level

G - Gauging

S - Sampling and Gauging (GW-24, 26, and 30 are sampled on an annual basis.)

P-9R, 10R, 11R, and 12R were installed December 2006 to January 2007. Replaced P-9, 10, 11, and 12.

TABLE 2
Groundwater-Waste Monitoring Summary

**Skinner Landfill
West Chester, Ohio**

2nd Half 2011

Piezometer ID	P-9R	P-10R	P-11R	P-12R	Comments
Grade Elevation (feet)	760.12	761.87	760.39	750.11	
Bottom of Waste Elevation (MSL-feet)	731.92	729.87	728.00	722.61	
Depth to Bottom of Waste (feet)	28.20	32.00	32.39	27.50	
Groundwater Elevation (ft):	22-Jan-07	747.70	739.52	734.04	BASELINE
	02-Mar-07	748.03	740.60	735.68	1st Q 2007
	11-Jun-07	746.34	751.34*	737.08	2nd Q 2007
	04-Sep-07	736.49	737.73	733.49	3rd Q 2007
	17-Dec-07	745.36	736.92	731.13	4th Q 2007
	10-Mar-08	747.61	739.04	733.71	1rst Q 2008
	02-Jun-08	748.06	740.44	739.15	2nd Q 2008
	16-Sep-08	743.09	738.64	735.98	3rd Q 2008
	01-Dec-08	736.46	737.52	733.38	4th Q 2008
	18-Feb-09	745.77	738.00	731.92	1rst Q 2009
	08-Jun-09	745.64	738.74	733.48	2nd Q 2009
	21-Sep-09	743.58	738.02	738.88	3rd Q 2009
	30-Nov-09	744.66	737.89	739.23	4th Q 2009
	15-Mar-10	747.02	739.12	738.38	1st Q 2010
	4-Jun-10	746.73	739.61	736.29	2nd Q 2010
	13-Sep-10	741.91	738.29	734.27	3rd Q 2010
	17-Dec-10	744.26	737.26	731.33	4th Q 2010
	28-Mar-11	747.48	739.01	730.65	1st Q 2011
	14-Jun-11	748.14	741.27	739.53	2nd Q 2011
	21-Sep-11	745.58	739.58	737.23	3rd Q 2011
	20-Dec-11	747.95	740.43	737.31	4th Q 2011

Notes:

Bottom-of-Waste elevations determined during installation of new piezometers completed between 12/6/06 through 12/11/06.

Shaded cells indicate water level elevations below the elevation of waste.

* Groundwater Elevation suspect.

TABLE 3
Groundwater Test Results Summary

**Skinner Landfill
 West Chester, Ohio
 2nd Half 2011**

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
GW-06R	NS	NS	NS	NS
GW-07R			—	
GW-58			—	
GW-59			—	
GW-60	NS	NS	NS	NS
GW-61			—	
GW-62A	NS	NS	NS	NS
GW-62B	NS	NS	NS	NS
GW-63			—	
GW-64	NS	NS	NS	NS
GW-65			—	
GW-24 (Perimeter Well)	NS	NS	NS	NS
GW-26 (Perimeter Well)			—	
GW-30 (Perimeter Well)	NS	NS	NS	NS

Notes:

— : all parameters below report limits

italic : above Contract Required Quantitation Levels (CRQL's)

bold : above trigger level

* : Insufficient sample volume or location dry.

** : Dissolved metals for analytes that have a corresponding trigger level.

NS: No Longer Sampled

Blank: No sample required for this event

TABLE 4
Surface Water Test Results Summary

**Skinner Landfill
 West Chester, Ohio
 2nd Half 2011**

Sample ID	VOCs	SVOCS	Dissolved Metals**	Pesticides/PCBs
SW-50			—	
SW-51	NS	NS	NS	NS
SW-52			—	
SWD-1			*	
SWD-2	NS	NS	NS	NS
SWD-3			*	

Notes:

— : all parameters below report limits

italic : above Contract Required Quantitation Levels (CRQL's)

bold : above trigger level

* : Insufficient sample volume or location dry.

** : Dissolved metals for analytes that have a corresponding trigger level.

NS: No Longer Sampled

Blank: No sample required for this event

A

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**Skinner Landfill
West Chester, Ohio**
Groundwater Analysis Summary Table for GW-06R

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)									Mar-10	TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09				
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	26.9 U	60.7 B	75.8 B				
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U			200	
Arsenic	2.4 U	2.5 U	2.5 U	2.7 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ			60	60
Barium	199 B	211 J	168 B	195 B	146 B	199 B	198 B	188 B			20	10
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U			1,000	200
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.6 B	0.3 B	0.4 B			5	5
Calcium	199,000	180,000 J	229,000	164,000 J	223,000	215,000	208,000	210,000			5	5,000
Chromium	0.30 U	2.1 B	0.20 U	0.20 U	2.7 B	1.1 B	0.4 UJ	2.2 B			11	10
Cobalt	0.20 U	0.50 B	1.4 B	0.30 U	0.5 U	1.3 B	0.5 U	0.5 U			50	
Copper	2.3 B	3.0 B	1.2 B	0.60 U	5.3 B	6.0 B	5.9 B	5.6 B			25	
Iron	69.6 B	586	60.0 B	81.1 U	24.8 B	361	291	86.6 B			7,000	100
Lead	1.0 B	2.4 B	1.2 B	1.2 U	1.6 UJ	1.6 U	2.7 J	4.9			4.2	3
Magnesium	35,800	34,200 J	43,600 J	29,500 J	39,700	38,000	36,400	37,200			5,000	
Manganese	6.5 B	132.0	451 J	226	19.0	64.9	41.1 J	22.2			15	
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U			0.2	0.2
Nickel	0.40 U	0.40 U	0.40 B	0.40 U	0.4 U	1.1 B	0.8 B	0.4 U			96	40
Potassium	2,180 B	2,460 B	5,400	2,420 J	2,370 B	2,330 B	2,800	2,510 B				5,000
Selenium	3.9 U	3.1 U	3.1 UJ	3.1 UJ	4.3 J	3.3 U	3.3 U	3.3 U			8.5	5
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.3 B	0.5 U	0.5 U	0.5 U			10	10
Sodium	19,400	17,300 J	29,900 J	16,000 J	20,300	20,800	20,300	20,800			5,000	
Thallium	4.7 B	1.8 U	1.9 B	1.8 U	1.5 R	2.1 J	1.5 UJ	1.5 UJ			40	10
Vanadium	1.0 U	10.4 B	12.0 B	3.2 B	1.0 U	4.1 B	1.0 U	7.5 B			50	
Zinc	9.0 B	15.2 B	0.50 U	0.50 UJ	4.3 U	4.9 B	4.3 U	4.3 U			86	20
Inorganics - Metals and Cyanide (Total)												
Aluminum	141 J	457	1,190	11,500 J	178 J	161 B	303 J	84.8 B				
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U				
Arsenic	2.4 UJ	2.5 UJ	6.8 B	11.1	3.6 U	3.6 U	3.6 UJ	3.6 UJ				
Barium	195 B	214 J	251 J	313 J	144 J	197 B	202	205				
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U				
Cadmium	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.6 B	0.4 B	0.4 B				
Calcium	197,000	173,000 J	235,000 J	303,000 J	235,000	201,000	205,000	225,000				
Chromium	0.60 B	3.1 B	0.20 U	15.9	2.9 B	1.7 B	0.4 UJ	2.7 B				
Cobalt	0.30 B	0.90 B	3.0 B	11.5 B	0.5 U	0.9 B	0.5 U	0.5 U				
Copper	5.40 B	5.3 B	6.0 B	23.7 B	6.7 B	6.2 B	6.6 B	5.5 B				
Cyanide	0.60 U	0.60 U	0.60 U	0.60 U	0.2 U	0.2 U	1.6 U	1.6 U			10	10
Iron	523	2,090	4,050 J	25,500	465	412 J	954 J	266				
Lead	0.80 UJ	3.4	4.8	21.1	1.6 UJ	1.6 U	3.7 J	4.2 J				
Magnesium	35,600	34,300 J	475,000 J	88,000 J	41,500	36,500	36,100	39,900				
Manganese	19.3	106.0	535 J	748	21.7	40.1 J	44.6	27.7				
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 B				
Nickel	0.40 U	0.40 B	1.9 B	21.8 B	0.4 U	0.6 B	0.7 B	0.4 U				
Potassium	2,220 J	2480.0 B	3,010 J	4,840 J	2,390 J	2,130 B	2,800 J	2,750 B				
Selenium	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 U	3.3 U	3.3 U				
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.5 B	0.5 U	0.5 U	0.5 U				
Sodium	18,700	17,000 J	18,000 J	16,400 J	23,800	19,300	19,500	22,700				
Thallium	2.2 B	1.8 U	1.8 U	1.8 U	1.5 UJ	2.7 J	1.5 UJ	1.5 UJ				
Vanadium	1.0 U	12.4 B	14.5 B	31.7 B	1.0 U	4.7 B	1.0 U	7.7 B				
Zinc	11.5 J	20.7	4.8 B	67.7 J	4.3 U	4.3 U	4.3 U	4.3 U				
Volatile Organic Compounds (VOC's)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL				

Notes:

- All results expressed in micrograms per liter (µg/L).
- Standard Inorganic Data Qualifiers have been used.
- Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- = No Sample Available (Well Dry or Insufficient Volume)
- U = Indicates compound was analyzed for but not detected.
- B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- B = (Organics) Indicates the analyte was detected in the Method Blank.
- UJ = A value less than the CRQL but greater than the MDL.
- J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- CRQL = Contract Required Quantitation Limit
- Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-07R

Quarterly Sampling Results (All Results Expressed in Units of µg/l)

Compound	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)¹⁴		Insufficient Volume										
Aluminum	15.3 U	—	26.9 U	26.9 U	29.1 B	143 B	69 B	0.20 U	0.15 B	0.20 U		200
Antimony	1.6 U	—	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0088 B	0.060 U	0.060 U	60	60
Arsenic	2.5 U	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ	4.2 B	0.0081 B	0.010 U	0.010 U	20	10
Barium	59.3 B	—	41.8 B	54.6 B	47.0 B	67.2 B	41 B	0.075 BJ	0.047 B	0.049 B	1,000	200
Beryllium	0.10 U	—	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U	0.0050 U	0.0050 U	5	5
Cadmium	0.10 U	—	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	0.00051 B	0.0050 U	0.0050 U	5	5
Calcium	270,000	—	191,000	245,000	292,000	228,000	178,000	224 J	184 J	192		5,000
Chromium	0.2 U	—	2.5 B	0.4 U	0.4 UJ	2.7 B	10 U	0.010 U	0.010 U	0.010 U	11	10
Cobalt	1.9 B	—	0.7 B	4.0 B	4.4 B	0.5 U	0.55 B	0.0028 B	0.00084 B	0.0020 B		50
Copper	0.6 U	—	4.9 B	5.5 B	6.6 B	5.8 B	7.5 B	0.025 U	0.0055 B	0.0090 B	25	25
Iron	419	—	244	562	2210	9.4 B	100 U	3.67	0.10 U	2.50	7,000	100
Lead	1.2 U	—	1.6 UJ	2.8 B	1.6 U	3.6	2.8 J	0.0030 U	0.0030 U	0.0030 U	4.2	3
Magnesium	45,600 J	—	32,500	42,100	51,900	39,000	31,700	38.5 J	32.2	35.2		5,000
Manganese	2,780 J	—	251	2,340	3,170 J	236	100	1.65	0.15	1.65		15
Mercury	0.10 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U	0.00008 B	0.00008 B	0.2	0.2
Nickel	0.90 B	—	0.4 U	3.1 B	3.8 B	0.9 B	1.2 B	0.0042 B	0.040 U	0.0020 B	96	40
Potassium	2,660 B	—	1,720 B	1,830 B	2,690 B	1,210 B	1,000 B	1.97 B	1.60 B	2.27 B		5,000
Selenium	3.1 U	—	3.3 UJ	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U	8.5	5
Silver	0.50 B	—	1.4 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U	10	10
Sodium	2,300 J	—	14,300	18,800	26,500	19,600	10,900	16.2	10.2	12.9		5,000
Thallium	1.8 U	—	1.5 R	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0048 BJ	0.010 U	0.010 U	40	10
Vanadium	12.8 B	—	1.0 U	7.6 B	1.0 U	8.7 B	12 J	0.0064 B	0.0060 B	0.011 B		50
Zinc	1.1 B	—	4.3 U	4.3 U	4.3 U	4.3 U	20 U	0.020 U	0.0052 B	0.020 U	86	20
Inorganics - Metals and Cyanide (Total)												
Aluminum	1,220	—	263 J	76.5 B	780 J	104 B	484	0.20 U	0.053 B	0.086 BJ		
Antimony	1.6 U	—	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.060 U	0.060 U	0.060 U		
Arsenic	2.5 U	—	3.6 U	3.6 U	3.6 U	3.6 UJ	3.9 B	0.0095 B	0.010 U	0.010 U		
Barium	115.0 J	—	57.9 J	56.7 B	74.6 B	70.3 B	150 B	0.070 BJ	0.054 B	0.058 B		
Beryllium	0.10 U	—	2.3 U	2.3 U	2.3 U	2.3 U	0.13 B	0.0050 U	0.0050 U	0.0050 U		
Cadmium	0.10 UJ	—	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	0.00058 B	0.0050 U	0.0050 U		
Calcium	304,000 J	—	200,000	240,000	289,000	236,000	189,000	222.0 J	189 J	200		
Chromium	0.20 U	—	2.4 B	0.4 U	0.4 UJ	2.7 B	10 U	0.010 U	0.00048 B	0.010 U		
Cobalt	2.9 B	—	0.6 B	3.6 B	5.5 B	0.5 U	2.7 B	0.0031 B	0.050 U	0.0011 B		
Copper	0.60 U	—	7.2 B	6.3 B	8.7 B	6.7 B	22 B	0.023 B	0.0080 B	0.011 B		
Cyanide	2.7 B	—	0.2 U	0.2 U	1.6 U	5.3 B	5.0	0.0050 U	0.0050 U	0.0013 B	10.0	10.0
Iron	4740.0 J	—	434	1,090 J	7,910 J	527	8,300	2.28	0.12	2.76		
Lead	3.1	—	1.6 UJ	2.8 B	3.4 J	5.0 J	10 J	0.0026 B	0.0030 U	0.0030 U		
Magnesium	53,500 J	—	34,000	41,100	51,500	39,800	38,200	37.3 J	32.6	35.3		
Manganese	2,830 J	—	75.3	2280 J	3200	247	200	1.53	0.17	1.33		
Mercury	0.10 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U	0.00020 U	0.00020 U		
Nickel	4.3 B	—	0.4 U	2.8 B	4.5 B	0.5 B	7.5 B	0.0048 B	0.040 U	0.0026 B		
Potassium	3,190 J	—	1,740 J	1,770 B	2,730 J	1,290 B	2,240 B	1.90 B	1.80 B	2.61 B		
Selenium	3.1 UJ	—	3.3 R	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U		
Silver	0.40 U	—	1.1 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U		
Sodium	24,800 J	—	14,600	18,100	25,600	20,000	10,400	15.7	10.9	13.2		
Thallium	1.8 U	—	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0059 BJ	0.010 U	0.010 U		
Vanadium	13.8 B	—	1.0 U	9.0 B	1.0 U	8.4 B	18 B	0.0059 B	0.0072 B	0.012 B		
Zinc	4.2 B	—	4.3 U	4.3 U	4.3 U	10.6 B	28	0.042	0.012 B	0.010 B		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NS	BRL	NS		
Semi-Volatile Organic Compounds (SVOCs)	BRL	—	BRL	BRL	BRL	BRL	BRL	NS	BRL	NS		
Pesticides / PCBs	BRL	—	BRL	BRL	BRL	BRL	BRL	NS	BRL	NS		

1) All results expressed in micrograms per liter (µg/L).

2) Standard Inorganic Data Qualifiers have been used.

3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.

4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.

5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ

6) — = No Sample Available (Well Dry or Insufficient Volume)

7) U = Indicates compound was analyzed for but not detected.

8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.

9) B = (Organics) Indicates the analyte was detected in the Method Blank.

10) UJ = A value less than the CRQL but greater than the MDL.

11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.

12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.

13) CRQL = Contract Required Quantitation Limit

14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.

15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

17) NS-no sampling required for that event

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-58

Quarterly Sampling Results (All Results Expressed in Units of µg/l)												TRIGGER LEVEL	CRQL
Compound	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11			
Inorganics - Metals (Dissolved)¹⁴													
Aluminum	15.3 U	15.3 U	26.9 U	26.9 U	60.7 B	419	59 B	0.20 U	0.20 U	0.20 U			200
Antimony	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0037 B	0.060 U	0.060 U	60		60
Arsenic	2.5 UJ	5.6 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ	3.6 J	0.0044 B	0.0038 J	0.010 U	20		10
Barium	114 B	122 B	113 B	121 B	116 B	113 B	110 B	0.11 BJ	0.10 B	0.12 B	1,000		200
Beryllium	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	0.75 J	0.0050 U	0.0050 U	0.0050 U	5		5
Cadmium	0.10 U	0.10 U	0.2 U	0.8 B	0.4 B	0.4 B	5.0 U	0.00028 B	0.00012 B	0.0050 U	5		5
Calcium	107,000	105,000 J	101,000	101,000	100,000	98,600	96.3 J	89.5 J	83.6				5,000
Chromium	0.20 U	0.20 U	2.0 B	0.7 B	0.4 UJ	2.1 B	10 U	0.010 U	0.010 U	0.010 U	11		10
Cobalt	0.30 U	0.30 U	0.5 U	0.5 B	0.5 U	0.5 U	0.93 B	0.050 U	0.050 U	0.050 U			50
Copper	2.5 B	0.60 U	4.3 B	5.0 B	5.6 B	5.2 B	25 U	0.025 U	0.025 U	0.0093 B	25		25
Iron	8.1 U	8.1 U	5.3 U	5.7 B	5.3 U	9.3 B	70 B	0.31	0.10 U	0.10 U	7,000		100
Lead	2.6 B	1.2 U	1.6 UJ	1.6 U	3.0 J	2.8 B	3.0 U	0.0030 U	0.0030 U	0.0030 U	4.2		3
Magnesium	31,700 J	31,600 J	29,600	30,000	31,200	31,800	30,100	27.2 J	25.1	29.2			5,000
Manganese	5.3 J	34.8	0.5 U	0.5 U	25.1 J	26.2	62 J	0.0034 B	0.0095 B	0.0034 B			15
Mercury	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.08 B	0.00020 U	0.00012 B	0.00020 U	0.00020 U	0.2		0.2
Nickel	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	3.1 B	0.0017 B	0.0072 B	0.040 U	96		40
Potassium	3,210 B	3,800 J	3,270 B	3,380 B	3,840 B	3,820 B	3,740 B	3.07 B	5.33	3.70 B			5,000
Selenium	3.1 UJ	3.1 UJ	3.3 U	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U	8.5		5
Silver	0.40 U	0.40 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5 B	0.010 U	0.010 U	0.010 U	10		10
Sodium	24,200 J	28,200 J	23,000	26,800	29,500	29,200	28,200	25.0	23.6	25.5			5,000
Thallium	2.1 B	1.8 U	1.5 R	4.5 J	1.5 UJ	1.5 UJ	5.7 B	0.0048 BJ	0.010 UJ	0.010 U	40		10
Vanadium	9.6 B	3.2 B	1.0 U	4.1 B	1.0 U	6.3 B	11 J	0.0043 B	0.0012 B	0.011 B			50
Zinc	0.50 U	0.50 UJ	4.3 U	14.6 B	4.3 U	4.3 U	20 U	0.0075 B	0.020 U	0.020 U	86		20
Inorganics - Metals and Cyanide (Total)													
Aluminum	1188 B	1,390 J	284 J	265	1,140 J	1,230	1,090	0.20 B	1.18	1.58			
Antimony	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0037 B	0.060 U	0.060 U			
Arsenic	2.5 U	5.3 B	4.0 J	3.6 U	3.6 UJ	3.6 UJ	10 UJ	0.0043 B	0.0037 J	0.0100 U			
Barium	133 J	135 J	122 J	133 B	122 B	124 B	130 B	0.1100 BJ	0.12 B	0.12 B			
Beryllium	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U	0.0050 U	0.0001 B			
Cadmium	0.10 UJ	0.10 UJ	0.2 U	1.0 B	0.7 B	0.7 B	5.0 U	0.00019 B	0.00029 B	0.0050 U			
Calcium	124,000 J	114,000 J	109,000	110,000	108,000	109,000	112,000	96.3 J	99.4 J	106			
Chromium	0.20 U	0.90 B	2.3 B	2.0 B	0.4 UJ	2.6 B	10 U	0.010 U	0.010 U	0.0026 B			
Cobalt	0.30 U	0.30 U	0.5 U	0.5 B	0.5 U	0.5 U	1.3 B	0.0012 B	0.0011 B	0.00068 B			
Copper	3.6 B	0.60 U	6.2 B	5.6 B	7.1 B	6.9 B	2.2 B	0.0013 B	0.0025 B	0.012 B			
Cyanide	1.3 B	0.90 B	0.2 U	0.2 U	1.6 U	1.6 U	5.0 U	0.0050 U	0.0050 U	0.0007 B	10		10
Iron	859 J	2,890	769	615 J	1970 J	2750	2780	0.42	3.42	2.92			
Lead	4.2	3.0 UJ	1.6 UJ	1.6 U	3.7 J	3.7	2.6 B	0.0030 U	0.0031 J	0.0028 B			
Magnesium	35,100 J	33,000 J	31,500	32,100	31,800	32,000	32,400	27.1 J	27.5	30.7			
Manganese	30.2 J	92.0	24.2	16.1 J	56.7	78.9	86 J	0.019	0.096	0.12			
Mercury	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U	0.00014 B	0.00010 B			
Nickel	0.40 U	1.3 B	0.4 U	1.0 B	1.3 B	1.6 B	4.1 B	0.0031 B	0.010 B	0.013 B			
Potassium	3,450 J	3,750 J	3,340 J	3,480 B	3,490 J	3,530 B	3,740 B	2.81 B	5.60	4.09 B			
Selenium	3.1 UJ	3.1 U	3.3 R	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U			
Silver	0.40 U	0.40 U	0.5 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U			
Sodium	27,000 J	23,800 J	23,400	27,900	25,000	24,300	26,600	23.3	23.0	24.4			
Thallium	1.8 U	1.8 U	1.5 UJ	6.4 J	1.5 UJ	1.5 UJ	2.7 B	0.0020 BJ	0.010 UJ	0.010 U			
Vanadium	12.3 B	5.0 B	1.0 U	4.0 B	1.0 U	8.2 B	11 J	0.0055 B	0.0036 B	0.013 B			
Zinc	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U	4.3 U	8.2 B	0.0066 B	0.0047 B	0.027			
Volatile Organic Compounds (VOCs)													
Semi-Volatile Organic Compounds (SVOCs)													
Pesticides / PCBs													

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or R
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- 17) NS=No sampling required for that event

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-59

Quarterly Sampling Results (All Results Expressed in Units of µg/l)											TRIGGER LEVEL	CRQL
Compound	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11		
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	15.3 U	15.3 U	29.9 B	26.9 U	61.7 B	121 B	50 B	0.12 B	0.20 U	0.032 BJ		200
Antimony	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.060 U	0.060 U	0.060 U	60	60
Arsenic	2.5 U	4.6 J	3.6 U	3.6 U	3.6 UJ	3.6 UJ	5.1 B	0.0068 B	0.010 U	0.010 U	20	10
Barium	45,400 B	38.3 B	46.6 B	35.0 B	42.0 B	33.3 B	28 B	0.041 B	0.038 B	0.048 B	1,000	200
Beryllium	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 UJ	0.0050 U	0.0050 U	5	5
Cadmium	0.10 U	0.10 U	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	0.00044 B	0.0050 U	0.0050 U	5	5
Calcium	208,000 U	189,000 J	191,000	180,000	204,000	163,000	159,000	179 J	162 J	167		5,000
Chromium	0.20 U	0.20 U	3.3 B	0.4 U	0.4 UJ	2.8 B	10 U	0.010 U	0.010 U	0.010 U	11	10
Cobalt	0.30 U	0.30 U	0.5 U	0.5 U	0.5 U	0.5 U	50 U	0.0019 B	0.050 U	0.050 U		50
Copper	3.3 B	0.60 U	5.4 B	5.9 B	6.9 B	4.9 B	7.0 B	0.025 U	0.025 U	0.010 B	25	25
Iron	8.1 U	53.0 B	5.3 U	5.3 U	5.3 U	24.8 B	100 U	0.41	0.10 U	0.10 U	7,000	100
Lead	1.6 B	1.2 U	1.6 UJ	1.6 U	4.3 J	4.5*	2.9 J	0.0030 U	0.0024 J	0.0030 U	4.2	3
Magnesium	43,200 J	43,100 J	37,400	29,800	41,600	26,500	26,200	34.5 J	29.7	38.7		5,000
Manganese	0.20 UJ	0.20 U	0.5 U	0.5 U	0.5 UJ	0.5 U	15 U	0.034	0.0023 B	0.0025 B		15
Mercury	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.12 B	0.00020 U	0.00013 B	0.00020 U	0.2	0.2
Nickel	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	1.2 B	0.0044 B	0.014 B	0.040 U	96	40
Potassium	17,800	12,200 J	16,700	19,700	18,900	15,500	11,100	13.8	15.7	16.8		5,000
Selenium	3.1 U	3.1 UJ	3.7 J	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U	8.5	5
Silver	0.50 B	0.40 U	0.9 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U	10	10
Sodium	95,500 J	90,500 J	83,100	60,700	105,000	51,700	46,600	81.7	62.7	91.2		5,000
Thallium	3.7 B	1.8 U	1.5 R	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0052 BJ	0.010 UJ	0.010 U	40	10
Vanadium	14.0 B	3.2 B	1.0 U	4.9 B	1.0 U	7.4 B	11 J	0.0060 B	0.0018 B	0.012 B		50
Zinc	0.50 U	0.50 UJ	4.3 U	7.3 B	4.3 U	4.3 U	20 U	0.020 U	0.020 U	0.020 U	86	20
Inorganics - Metals and Cyanide (Total)												
Aluminum	674	578 J	251 J	35.1 B	70.9 J	308	82 B	0.20 U	0.20 U	0.043 B		
Antimony	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0037 B	0.0047 B	0.060 U		
Arsenic	2.5 U	6.7 B	5.3 J	3.6 U	3.6 UJ	3.6 UJ	10 U	0.0085 B	0.010 U	0.010 U		
Barium	60.3 J	53.9 J	50.0 J	35.7 B	37.4 B	39.8 B	28 B	0.038 BJ	0.045 B	0.048 B		
Beryllium	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U	0.0050 U	0.0050 U		
Cadmium	0.10 UJ	0.10 UJ	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	0.00046 B	0.0050 U	0.0050 U		
Calcium	209,000 J	207,000 J	203,000	187,000	185,000	180,000	158,000	180 J	173 J	186		
Chromium	0.20 U	0.20 B	2.7 B	0.4 U	0.4 UJ	2.2 B	10 U	0.010 U	0.010 U	0.00036 B		
Cobalt	1.1 B	0.30 U	0.5 U	0.5 U	0.5 U	0.5 U	50 U	0.0015 B	0.050 B	0.050 U		
Copper	4.8 B	0.60 U	7.3 B	8.2 B	6.8 B	7.1 B	7.3 B	0.025 U	0.025 U	0.011 B		
Cyanide	3.9 B	0.60 U	0.2 U	0.2 U	1.6 U	3.0 B	5.0 U	0.0027 B	0.0006 B	0.0012 B	10	10
Iron	2,430 J	1,620	671	20.2 J	86.0 J	854	30 B	0.23	0.10 UJ	0.048 B		
Lead	3.8 J	3.0 UJ	1.6 UJ	1.6 U	1.6 U	4.8 J	2.1 J	0.0030 U	0.0016 J	0.0030 U		
Magnesium	425,000 J	45,200 J	36,900	31,300	34,800	27,900	25,100	34.8 J	28.1	38.1		
Manganese	181 J	94.8	30.5	0.9 J	7.3 B	36.4	6.0 B	0.016	0.0050 J	0.012 B		
Mercury	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 B	0.20 U	0.00020 U	0.00015 B	0.00020 U		
Nickel	1.5 B	0.90 B	0.4 U	0.4 U	0.4 U	0.4 U	40 U	0.0037 B	0.015 B	0.040 U		
Potassium	19,600 J	12,900 J	18,200 J	21,200	25,400 J	14,100	9,920	14.3	16.0	17.4		
Selenium	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U		
Silver	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U		
Sodium	95,300 J	93,600 J	77,900	61,800	86,500	54,800	41,800	81.8	51.7	89.7		
Thallium	1.8 J	1.8 U	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0057 BJ	0.010 UJ	0.010 U		
Vanadium	9.3 B	5.5 B	1.0 U	7.3 B	1.0 U	6.9 B	8 J	0.0064 B	0.0010 B	0.012 B		
Zinc	0.50 U	0.50 UJ	4.3 U	5.9 B	4.3 U	4.3 U	20 U	0.020 U	0.020 U	0.020 U		
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- * Field duplicate value of 2.8 was below Trigger Level.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- 17) NS-no sampling required for that event

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-60

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										Trigger Level	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10			
Inorganics - Metals (Dissolved)¹⁴			Insufficient Volume	Insufficient Volume						Sampling no longer required - see note 16		
Aluminum	15.4 U	15.3 U	—	—	28.6 B	26.9 U	65.6 B	109 B			200	
Antimony	2.4 U	1.6 U	—	—	4.8 U	4.8 U	4.8 U	4.8 U		60	60	
Arsenic	2.4 U	2.5 U	—	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ		20	10	
Barium	64.1 B	87.4 J	—	—	59.9 B	90.5 B	59.3 B	80.4 B		1,000	200	
Beryllium	0.10 U	0.10 U	—	—	2.3 U	2.3 U	2.3 U	2.3 U		5	5	
Cadmium	0.10 U	0.10 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U		5	5	
Calcium	160,000	124,000 J	—	—	153,000	259,000	139,000	244,000			5,000	
Chromium	1.2 B	1.4 B	—	—	2.7 B	0.8 B	0.4 UJ	3.8 B		11	10	
Cobalt	0.20 U	0.30 U	—	—	0.5 U	0.5 U	1.7 B	0.5 U			50	
Copper	3.80 B	3.6 B	—	—	5.7 B	8.9 B	6.1 B	8.3 B		25	25	
Iron	8.5 U	8.1 U	—	—	5.3 U	13.2 B	2,420	130		7,000	100	
Lead	0.80 U	2.9 B	—	—	1.6 UJ	2.2 B	2.4 J	3.6		4.2	3	
Magnesium	23,800	16,100 J	—	—	35,500	68,900	33,500	61,300			5,000	
Manganese	0.30 U	0.20 U	—	—	0.5 U	0.5 U	742 J	1.4 B			15	
Mercury	0.10 U	0.10 UJ	—	—	0.1 U	0.1 U	0.1 U	0.1 U		0.2	0.2	
Nickel	0.40 U	0.40 U	—	—	0.4 U	0.4 U	1.7 B	0.4 U		96	40	
Potassium	6,650	9,980	—	—	6,120	7,220	5,980	5,020			5,000	
Selenium	3.9 U	3.2 B	—	—	3.3 UJ	3.3 UJ	3.3 U	3.3 U		8.5	5	
Silver	0.30 U	0.40 U	—	—	1.2 B	0.5 U	0.5 U	0.5 U		10	10	
Sodium	15,100	7,300 J	—	—	11,900	20,100	9,840	19,300			5,000	
Thallium	4.3 B	1.8 U	—	—	1.5 R	1.5 U	1.5 UJ	1.5 UJ		40	10	
Vanadium	1.6 B	4.3 B	—	—	1.0 U	10.5 B	1.0 U	8.1 B			50	
Zinc	9.1 B	10.1 B	—	—	4.3 U	10.8 B	4.3 U	4.3 U		86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	110 J	127 B	—	—	355 J	9,420	18,100 J	426				
Antimony	2.4 U	1.6 U	—	—	4.8 U	4.8 U	4.8 U	4.8 U				
Arsenic	2.4 UJ	2.5 U	—	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ				
Barium	68.6 B	88.4 J	—	—	66.7 J	123 B	125 B	63.4 B				
Beryllium	0.10 U	0.10 U	—	—	2.3 U	2.3 U	2.3 U	2.3 U				
Cadmium	0.10 U	0.10 U	—	—	0.2 U	0.2 B	3.6 B	0.2 U				
Calcium	144,000	122,000 J	—	—	168,000	244,000	146,000	220,000				
Chromium	1.9 B	1.8 B	—	—	2.9 B	19.8	0.4 UJ	2.8 B				
Cobalt	0.20 U	0.30 U	—	—	0.5 U	8.2 B	18.5 B	0.5 U				
Copper	9.10 B	5.3 B	—	—	8.1 B	20.1 B	39.0 J	8.1 B				
Cyanide	0.60 U	0.60 U	—	—	218	0.2 U	—	4.8 B		10	10	
Iron	285	307	—	—	816	21,800 J	42,000 J	648				
Lead	0.80 UJ	1.5 B	—	—	1.6 UJ	10.9	29.4 J	3.8 J				
Magnesium	21,500	16,400 J	—	—	37400	65800	35100	47700				
Manganese	6.6 B	15.5	—	—	25	726 J	1,160	21.5				
Mercury	0.10 U	0.10 UJ	—	—	0.1 U	0.1 U	0.1 U	0.2 B				
Nickel	0.40 U	0.40 U	—	—	0.4 U	18.3 B	36.7 B	0.4 U				
Potassium	7,430 J	9,910	—	—	6,760 J	8,030	9,800 J	4,810 B				
Selenium	3.9 U	3.6 B	—	—	3.3 R	3.3 UJ	3.3 U	3.3 U				
Silver	0.30 U	0.40 U	—	—	0.6 B	0.5 U	0.5 U	0.5 U				
Sodium	13,200	7,450 J	—	—	12,700	17,500	6,900	16,600				
Thallium	2.7 B	1.8 U	—	—	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ				
Vanadium	1.0 U	4.6 B	—	—	1.0 U	29.1 B	26.3 U	6.3 B				
Zinc	15.4 J	12.6 B	—	—	4.3 U	63.9	111	4.3 U				
Volatile Organic Compounds (VOCs)	BRL	BRL	—	—	BRL	BRL	BRL	BRL				
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	—	—	—	—	—	BRL				
Pesticides / PCBs	BRL	BRL	—	—	—	BRL	—	BRL				

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-61

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11			
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	32.4 B	26.9 U	26.9 U	26.9 U	37.7 B	200 U	0.2 U	0.20 U	0.036 BJ		200	
Antimony	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0093 B	0.060 U	0.0052 B	60	60	
Arsenic	2.5 U	3.6 U	3.6 U	3.6 UJ	3.6 UJ	10 U	0.012	0.0048 J	0.010 U	20	10	
Barium	28.7 B	19.1 B	21.2 B	24.1 B	31.3 B	18 B	0.025 BJ	0.017 B	0.045 B	1,000	200	
Beryllium	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U	0.0050 U	0.0050 U	5	5	
Cadmium	0.10 U	0.2 U	0.2 B	0.6 B	0.5 B	5.0 U	0.0011 B	0.0005 U	0.00041 B	5	5	
Calcium	322,000 J	469,000	471,000	296,000	332,000	421,000	374 J	396 J	332		5,000	
Chromium	0.2 U	4.9 B	0.8 B	0.4 UJ	3.7 B	10 U	0.010 U	0.010 U	0.010 U	11	10	
Cobalt	1.5 B	1.1 B	1.2 B	0.9 B	0.8 B	0.70 B	0.0035 B	0.0011 B	0.00063 B		50	
Copper	0.60 U	6.9 B	9.9 B	10.4 B	12.4 B	14 B	0.025 U	0.025 U	0.014 B	25	25	
Iron	713	645	17.9 B	5.3 U	1910	100 U	2.81	2.09	0.10 U	5,000	100	
Lead	1.2 U	1.6 UJ	2.1 B	5.1 J	3.6	2.7 J	0.0015 B	0.0030 UJ	0.0030 U	4.2	3	
Magnesium	74,400 J	93,200	101,000	65,400	79,000	99,100	91.2 J	86.0	71.0		5,000	
Manganese	881	433	328	409 J	425	86	0.51	0.38	0.37		15	
Mercury	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U	0.00014 B	0.00020 U	0.2	0.2	
Nickel	4.3 B	4.6 B	7.3 B	6.0 B	6.5 B	5.0 B	0.010 B	0.034 B	0.0052 B	96	40	
Potassium	10,700 J	14,500	16,600	12,500	12,100	12,800	11.4	10.7	11.8		5,000	
Selenium	3.1 UJ	3.3 U	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U	8.5	5	
Silver	0.70 B	2.1 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U	10	10	
Sodium	98,200 J	66,100	74,300	72,000	92,800	71,000	112	52.3	53.7		5,000	
Thallium	1.8 U	1.5 R	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0047 BJ	0.010 UJ	0.010 U	40	10	
Vanadium	5.4 B	1.0 U	12.5 B	1.0 U	10.8 B	16 J	0.0055 B	0.0011 B	0.013 B		50	
Zinc	0.50 UJ	4.3 U	4.3 U	4.3 U	4.3 U	20 U	0.020 U	0.020 U	0.016 B	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	225 J	32.2 J	131.0 B	107.0 J	8620	47 B	0.20 U	0.20 U	0.60			
Antimony	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0098 B	0.060 U	0.060 U			
Arsenic	2.5 U	3.6 U	3.6 U	3.6 UJ	3.6 UJ	4.3 B	0.012	0.010 U	0.010 U			
Barium	37.2 J	17.5 J	20.1 B	25.1 B	122 B	16 B	0.026 BJ	0.018 B	0.046 B			
Beryllium	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.0050 U	0.0050 U	0.0050 U			
Cadmium	0.10 UJ	0.2 U	0.2 U	0.3 B	2.3 B	5.0 U	0.0010 B	0.0050 U	0.0050 U			
Calcium	312,000 J	457,000	443,000	340,000	401,000	396,000	349 J	409 J	321			
Chromium	0.20 U	4.7 B	1.1 B	0.4 UJ	0.4 U	10 U	0.010 U	0.010 U	0.0013 B			
Cobalt	0.30 U	0.8 B	0.9 B	1.0 B	8.2 B	0.87 B	0.0031 B	0.00050 B	0.00066 B			
Copper	1.3 B	7.5 B	13.8 B	11.5 B	23.1 B	13 B	0.025 U	0.025 U	0.015 B			
Cyanide	0.60 U	196	0.2 U	1.6 U	1.9 B	5.0 U	0.0050 U	0.0029 B	0.0009 B	10	10	
Iron	934	161	1,080 J	925 J	32900	220	0.26	0.21	0.90			
Lead	3.0 UJ	1.6 UJ	2.7 B	2.7 J	16.9 J	2.4 J	0.0030 U	0.0025 J	0.0030 U			
Magnesium	65,000 J	89,300	92,100	74,100	96,900	89,800	78.9 J	84.4	65.2			
Manganese	106	336	253 J	418	896	78	0.12	0.28	0.16			
Mercury	0.10 U	0.1 U	0.1 U	0.1 U	0.2	0.20 U	0.00020 U	0.00012 B	0.00020 U			
Nickel	4.8 B	3.4 B	7.0 B	5.5 B	23.9 B	4.2 B	0.010 B	0.035 B	0.0054 B			
Potassium	11,700 J	14,700 J	15,500	13,500 J	14,000	11,600	12.3	11.2	11.7			
Selenium	3.1 U	3.3 R	3.3 UJ	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U			
Silver	0.50 B	2.1 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U			
Sodium	65,000 J	57,000	67,900	83,800	94,500	51,700	81.2	37.2	49.9			
Thallium	1.8 U	1.5 U	1.5 U	1.5 UJ	1.5 UJ	10 U	0.0072 BJ	0.0100 UJ	0.010 U			
Vanadium	5.6 B	1.0 U	14.4 B	1.0 U	20.4 B	13 J	0.0051 B	0.050 U	0.016 B			
Zinc	0.50 UJ	4.3 U	7.4 B	4.3 U	55.6	20 U	0.0049 B	0.020 U	0.0093 B			
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ.
- 6) — = No Sample Available (Well Dry or Insufficient Volume).
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- 17) NS= no sampling required for that event

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-62A

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)									TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10		
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	26.9 U	65.1 B	97.7 B			
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U		200	
Arsenic	2.4 U	2.5 U	2.5 UJ	2.5 U	3.6 U	3.6 U	3.6 UJ	3.6 UJ		60	
Barium	101 B	88.9 J	98.9 B	97.8 B	105 B	108 B	110 B	110 B		20	
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U		1,000	
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.7 B	0.6 B	0.8 B		5	
Calcium	119,000	114,000 J	127,000	115,000 J	111,000	128,000	126,000	122,000			5,000
Chromium	0.40 B	2.5 B	0.20 U	0.20 U	2.9 B	0.4 U	0.4 UJ	2.8 B		11	
Cobalt	0.20 U	0.30 U	0.30 U	0.30 U	0.5 U	0.5 U	0.5 U	0.5 U		50	
Copper	4.6 B	4.7 B	3.5 B	0.60 U	6.1 B	7.5 B	7.5 B	14.4 B		25	
Iron	8.5 U	8.1 U	8.1 U	8.1 U	5.3 U	5.3 U	20.8 B	121		7,000	
Lead	0.80 U	2.8 B	1.3 B	1.2 U	1.6 UJ	2.9 B	1.9 J	19.9		4.2	
Magnesium	44,000	40,700 J	46,300 J	41,100 J	41,200	43,800	43,700	43,300			5,000
Manganese	0.30 U	0.20 U	33.4 J	2.3 B	120	3.3 B	0.5 UJ	1.8 B			15
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U		0.2	
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U		96	
Potassium	7,220	6,200	7,300	6,740 J	7,180	6,470	6,670	6,710			5,000
Selenium	3.9 U	3.1 U	3.1 UJ	3.1 UJ	3.3 UJ	3.3 UJ	3.3 U	3.3 U		8.5	
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	0.5 U		10	
Sodium	103,000	96,300 J	106,000 J	101,000 J	104,000	102,000	103,000	104,000			5,000
Thallium	5.5 B	1.8 U	1.8 U	1.8 U	1.5 R	1.5 U	1.5 UJ	1.5 UJ		40	
Vanadium	2.5 B	12.4 B	11.5 B	3.3 B	1.0 U	7.9 B	1.0 U	7.9 B		50	
Zinc	7.9 B	14.4 B	0.50 U	0.50 UJ	4.3 U	9.1 B	4.3 U	4.3 U		86	
Inorganics - Metals and Cyanide (Total)											
Aluminum	5,190 J	228	192 B	1,190 J	483 J	648	2,650 J	625			
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 UJ	2.5 UJ	2.5 U	4.0 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ			
Barium	218	95.4 J	107 J	108 J	125 J	119 B	157 B	113 B			
Beryllium	0.20 B	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.8 B	1.3 B	1.0 B			
Calcium	166,000	117,000 J	134,000 J	119,000 J	127,000	128,000	138,000	129,000			
Chromium	15.3	3.3 B	0.20 U	1.6 B	3.9 B	3.2 B	0.4 UJ	3.5 B			
Cobalt	5.6 B	0.30 U	0.30 U	0.30 U	0.5 U	0.5 U	2.0 B	0.5 U			
Copper	14.2 B	6.1 B	6.0 B	1.1 B	7.8 B	11.9 B	12.8 B	13.8 B			
Cyanide	0.60 U	0.60 U	0.90 B	0.60 U	0.2 U	0.2 U	1.6 U	1.6 B		10.0	10.0
Iron	13,600	629	1,020 J	2,940	1,270	1,850 J	6,640 J	1,180			
Lead	5.9 J	2.0 B	3.3 J	3.0 UJ	1.6 UJ	2.7 B	6.2 J	3.6 J			
Magnesium	54,400	42,800 J	47,100 J	39,800	46,400	42,200	46,500	43,400			
Manganese	395	14.4 B	51.5 J	74.8	159	48.7 J	201.0	30.3			
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2			
Nickel	16.0 B	0.80 B	0.40 U	1.9 B	0.7 B	2.5 B	7.7 B	1.0 B			
Potassium	9,290 J	6,610	7,230 J	6,400 J	7,770 J	6,220	7,280 J	6,540			
Selenium	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U	3.3 U			
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	0.5 U			
Sodium	113,000	102,000 J	105,000 J	96,500 J	11,000	99,400	102,000	99,700			
Thallium	3.9 B	1.8 U	1.8 UJ	1.8 U	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ			
Vanadium	8.1 B	12.4 B	9.2 B	4.5 B	1.0 U	8.4 B	1.0 U	8.8 B			
Zinc	53.1 J	14.7 B	0.50 U	0.50 UJ	4.3 U	11.3 B	13.1 B	4.5 B			
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-62B

Compound	Mar-08	Jun-08	#	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Quarterly Sampling Results (All Results Expressed in Units of mg/l)	
										Trigger Level	CRQL
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	200.0 U	15.9 U		32.9 B	215	26.9 U	—	—	Sampling no longer required - see note 16		200
Antimony	60.0 U	1.6 U		1.6 U	4.8 U	4.8 U	—	—		60	60
Arsenic	10.0 U	2.5 U		2.5 U	3.6 U	3.6 U	—	—		20	10
Barium	21.9 B	41.8 B		227	32.3 B	49.5 B	—	—		1,000	200
Beryllium	5.0 U	0.10 U		0.1 U	2.3 U	2.3 U	—	—		5	5
Cadmium	5.0 U	0.10 U		0.1 U	0.2 U	0.2 U	—	—		5	5
Calcium	239,000	273,000	J	310,000 J	248000	345000	—	—			5,000
Chromium	0.50 B	3.3 U		0.2 U	3.7 B	0.7 B	—	—		11	10
Cobalt	50.0 U	0.50 B		10.6 B	1.4 B	0.9 B	—	—			50
Copper	4.3 B	4.6 U		1.8 B	7.1 B	12.3 B	—	—		25	25
Iron	11.5 B	8.1		41.9 B	569	286	—	—		7,000	100
Lead	1.2 B	3.1 B		1.2 U	1.6 UJ	2.7 B	—	—		4.2	3
Magnesium	48,600	56,700 J		82,300 J	48400	69900	—	—			5,000
Manganese	15.0 U	223 J		2,700	127	454	—	—			15
Mercury	0.20 U	0.10 U		0.1 U	0.1 U	0.1 U	—	—			0.2
Nickel	40.0 U	4.6 B		19.5 B	1.3 B	5.4 B	—	—		96	40
Potassium	3,220 B	1,000		20,200 J	5430	8480	—	—			5,000
Selenium	5.0 U	3.1 J		3.1 UJ	3.3 UJ	3.3 U	—	—		8.5	5
Silver	0.30 B	0.40 B		0.5 B	1.1 B	0.5 U	—	—		10	10
Sodium	33,900	54,500 J		75,400 J	41800	69000	—	—			5,000
Thallium	3.4 B	1.8 U		1.8 U	1.5 R	1.5 U	—	—		40	10
Vanadium	1.7 B	16.0 B		4.7 B	1.0 U	9.9 B	—	—			50
Zinc	32.3	52.6		32.7 J	25.6	56.6	—	—		86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	1,610 J	1,320 B		—	—	—	—	—			
Antimony	60.0 U	1.6 U		—	—	—	—	—			
Arsenic	10.0 UJ	2.5 U		—	—	—	—	—			
Barium	31.2 B	43.4 J		—	—	—	—	—			
Beryllium	0.10 B	0.10 U		—	—	—	—	—			
Cadmium	5.00 U	0.10 UJ		—	—	—	—	—			
Calcium	242,000	270,000 J		—	—	—	—	—			
Chromium	3.5 B	5.1 U		—	—	—	—	—			
Cobalt	1.4 B	1.7 B		—	—	—	—	—			
Copper	7.2 B	13.0 U		—	—	—	—	—			
Cyanide	10.0 U	0.60 —		—	—	—	—	—			
Iron	6,820	3,970 J		—	—	—	—	—			
Lead	1.8 J	4.6 UJ		—	—	—	—	—			
Magnesium	49,800	59,300 J		—	—	—	—	—			
Manganese	155	461 J		—	—	—	—	—			
Mercury	0.20 U	0.10 U		—	—	—	—	—			
Nickel	3.1 B	8.3 B		—	—	—	—	—			
Potassium	3,680 J	13,100 J		—	—	—	—	—			
Selenium	5.0 U	3.1 J		—	—	—	—	—			
Silver	10.0 U	0.40 B		—	—	—	—	—			
Sodium	34,000	59,500 J		—	—	—	—	—			
Thallium	2.3 B	1.8 UJ		—	—	—	—	—			
Vanadium	50.0 U	18.2 B		—	—	—	—	—			
Zinc	71.0 J	80.5		—	—	—	—	—			
Volatile Organic Compounds (VOC's)											
Semi-Volatile Organic Compounds (SVOCs)											
Pesticides / PCBs											

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g/L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill
West Chester, Ohio**
Groundwater Analysis Summary Table for GW-63

Compound	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11	Quarterly Sampling Result (All Results Expressed in Units of µg/l)	
										Trigger Level	CRQL
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	583	38.6 B	26.9 U	32.1 B	144 B	19 B	0.20 U	0.20 U	0.20 U		200
Antimony	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0087 B	0.0043 B	0.0049 B	60	60
Arsenic	2.5 U	3.6 U	4.4 B	3.6 UJ	3.6 UJ	6.0 B	0.0076 B	0.0039 J	0.010 U	20	10
Barium	43.4 B	27.1 B	29.7 B	33.2 B	36.7 B	29 B	0.031 BJ	0.026 B	0.047 B	1,000	200
Beryllium	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U	5	5
Cadmium	0.10 U	0.2 U	0.6 B	0.2 U	0.2 B	5.0 U	0.00059 B	0.0050 U	0.0050 U	5	5
Calcium	290,000 J	336,000	238,000	227,000	224,000	284,000	250 J	237 J	225		5,000
Chromium	0.20 U	4.9 B	0.9 B	0.4 UJ	2.7 B	10 U	0.010 U	0.010 U	0.010 U	11	10
Cobalt	0.40 B	0.5 U	0.8 B	1.9 B	0.5 U	50 U	0.0050 B	0.0500 U	0.0017 B		50
Copper	1.3 B	7.0 B	7.9 B	7.8 B	8.2 B	12 B	0.025 U	0.025 U	0.014 B	25	25
Iron	1,440	5.3 U	5.3 U	6.2 B	120	10 U	0.51	0.10 U	0.10 U	7,000	100
Lead	1.2 U	1.6 UJ	2.8 B	2.4 J	1.6 U	1.5 J	0.0030 U	0.0030 UJ	0.0030 U	4.2	3
Magnesium	70,200 J	80,000	54,800	52,100	52,100	71,100	59.6 J	56.8	61.2		5,000
Manganese	832	12.2 B	507	1,740 J	639	17	1.78	0.049	1.700		15
Mercury	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.07 B	0.00020 U	0.00014 B	0.00020 U	0.2	0.2
Nickel	3.1 B	0.4 U	2.4 B	2.1 B	1.0 B	40 U	0.0062 B	0.019 B	0.0042 B	96	40
Potassium	6,840 J	5,300	5,820	6,810	6,320	4,440 B	5.08	4.10 B	5.90		5,000
Selenium	3.4 J	4.7 J	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U	8.5	5
Silver	0.40 U	1.7 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U	10	10
Sodium	65,200 J	46,000	38,300	46,500	34,000	31,700	47.3	25.2	47.7		5,000
Thallium	1.8 U	1.5 R	2.1 J	1.5 UJ	1.5 U	10 U	0.010 UJ	0.010 UJ	0.010 U	40	10
Vanadium	4.5 B	1.0 U	5.5 B	1.0 U	7.9 B	16 J	0.0051 B	0.050 U	0.013 B		50
Zinc	0.50 UJ	4.3 U	4.3 U	4.3 U	4.3 U	20 U	0.020 U	0.020 U	0.020 U	86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	5,080 J	3,190 J	1,970	5,580 J	760	200 U	0.15 B	0.060 B	0.096 B		
Antimony	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.00710 B	0.0044 B	0.0600 U		
Arsenic	5.4 B	5.9 J	3.6 U	3.6 UJ	3.6 UJ	10 U	0.0036 B	0.010 U	0.010 U		
Barium	70.3 J	42.1 J	36.0 B	68.5 B	41.0 B	28 B	0.032 BJ	0.028 B	0.049 B		
Beryllium	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U		
Cadmium	0.10 UJ	0.2 U	0.9 B	1.2 B	0.3 B	5.0 U	0.00052 B	0.0050 U	0.0050 U		
Calcium	355,000	349,000	230,000	252,000	231,000	250,000	230 J	223 J	252		
Chromium	4.1 B	8.4 B	3.5 B	0.4 UJ	3.2 B	10 U	0.010 U	0.010 U	0.010 U		
Cobalt	4.6 B	1.9 B	1.5 B	5.9 B	1.2 B	50 U	0.0044 B	0.050 U	0.0011 B		
Copper	9.2 B	14.0 B	9.8 B	17.1 B	9.5 B	11 B	0.025 U	0.025 U	0.014 B		
Cyanide	0.70 B	0.2 U	0.2 U	1.6 U	1.6 U	7.6	0.0050 U	0.0050 U	0.0013 B	10	10
Iron	11,200	6,770	3,100 J	13,800 J	1,730	100 J	0.48	0.18	0.26		
Lead	5.6 J	3.1 J	3.4	10.6 J	5.7 J	1.6 B	0.0030 U	0.0017 J	0.0030 U		
Magnesium	83,600 J	82,400	53,400	58,900	52,700	61,600	51.9 J	53.6	58.7		
Manganese	986	331	497 J	1,460	705	13 B	1.40	0.056	1.61		
Mercury	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.20 U	0.00020 U	0.00013 B	0.00020 U		
Nickel	11.6 B	4.4 B	4.5 B	12.9 B	1.9 B	40 U	0.0066 B	0.017 B	0.0030 B		
Potassium	8,170 J	5,990 J	6,350	8,430 J	6,610	4,170 B	6.07	3.87 B	5.88		
Selenium	3.1 U	3.3 R	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U		
Silver	0.40 U	2.2 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U		
Sodium	66,300 J	46,200	35,700	43,900	33,700	27,500	42.3	22.9	46.6		
Thallium	1.8 U	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	10 U	0.0053 BJ	0.010 UJ	0.010 U		
Vanadium	13.8 B	1.0 U	7.9 B	1.0	7.9 B	11 J	0.0054 B	0.0013 B	0.015 B		
Zinc	14.7 J	15.5 B	6.9 B	28.4	4.3 U	20 U	0.020 U	0.020 U	0.020 U		
Volatile Organic Compounds (VOCs)											
Semi-Volatile Organic Compounds (SVOCs)											
Pesticides / PCBs											

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- 17) NS= no sampling required for that event

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-64

Compound	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Quarterly Sampling Result (All Results Expressed in Units of $\mu\text{g}/\text{L}$)	
										Trigger Level	CRQL
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	15.4 U	15.3 U	15.3 U	70.3 B	26.2 U	26.9 U	58 B	96.7 B			
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 U	2.5 U	2.5 U	5.8 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ			
Barium	43.1 B	48.6 J	48.4 B	43.1 B	41.5 B	47.5 B	44.5 B	42.2 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.2 U	0.2 U	0.2 U			
Calcium	166,000	151,000 J	194,000	181,000 J	174,000	182,000	170,000	173,000			
Chromium	0.4 B	3.3 B	0.20 U	0.20 U	3.8 B	0.6 B	0.4 UJ	3.4 B			
Cobalt	1.00 B	2.0 B	0.40 B	0.30 U	0.5 U	0.6 B	0.5 U	0.5 U			
Copper	2.8 B	3.5 B	0.60 B	0.60 U	5.7 B	7.3 B	8.0 B	7.7 B			
Iron	8.5 U	8.1 U	8.1 U	160	5.3 U	46.8 B	21 B	213			
Lead	0.80 U	3.2	1.2 U	1.2 U	1.6 UJ	1.6 U	1.7 J	4.3			
Magnesium	54,000	51,500 J	62,900 J	55,100 J	54,500	56,600	50,500	526,000			
Manganese	1150	2,080	619.0 J	611	398	983	90.6 J	79.3			
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U			
Nickel	2.9 B	4.6 B	4.0 B	2.8 B	0.7 B	2.7 B	0.9 B	1.1 B			
Potassium	12,400	17,100	17,100	7,600 J	9,160	12,700	5,980	6,390			
Selenium	3.9 U	3.1 U	3.1 U	3.1 UJ	3.7 J	3.3 UJ	3.3 U	3.3 U			
Silver	0.30 U	0.40 U	0.50 B	0.40 U	0.8 B	0.5 U	0.5 U	0.5 U			
Sodium	39,400	41,300 J	52,900 J	45,900 J	36,800	42,500	32,700	33,500			
Thallium	2.9 B	1.8 U	1.8 U	1.8 U	1.5 R	1.5 U	1.5 UJ	1.5 UJ			
Vanadium	3.2 B	14.3 B	13.6 B	3.5 B	1.0 U	8.7 B	1.0 U	9.4 B			
Zinc	7.4 B	10.2 B	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U	4.3 U			
Inorganics - Metals and Cyanide (Total)											
Aluminum	1,730 J	583	333	6670 J	135 J	38.8 B	881.0 J	536			
Antimony	2.4 UJ	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 UJ	2.5 UJ	2.5 U	2.5 B	5.4 J	3.6 U	3.6 UJ	3.6 UJ			
Barium	39.7 B	56.2 J	49.3 J	62.5 B	44.7 J	49.0 B	46.0 B	44.1 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.2 U	0.3 B	0.3 B			
Calcium	228,000	167,000 J	206,000 J	198,000 J	195,000	183,000	174,000	178,000			
Chromium	2.3 B	4.8 B	0.20 U	8.4 B	3.6 B	0.9 B	0.4 UJ	3.6 B			
Cobalt	2.4 B	3.8 B	1.6 B	7.9 B	1.1 B	0.5 U	1.1 B	0.5 U			
Copper	5.6 B	5.2 B	1.1 B	4.8 B	10.0 B	7.3 B	8.4 B	7.9 B			
Cyanide	0.60 B	3.0 B	2.1 B	1.4 B	0.2 U	0.2 U	1.6 U	1.6 U			
Iron	2,690	2,030	1,300 J	14,500	405	1,160 J	2,330 J	1,250			
Lead	0.8 UJ	1.8 B	2.9 J	3.3 J	1.6 UJ	2.2 B	4.1 J	4.1 J			
Magnesium	64,800	56,700 J	66,000 J	59,300 J	61,600	55,900	49,400	52,800			
Manganese	1,200	2,690	793 J	1,330	646	867 J	695	233			
Mercury	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U			
Nickel	4.4 B	7.0 B	6.3 B	13.9 B	2.2 B	1.7 B	2.6 B	0.6 B			
Potassium	10,400 J	20,800	20,400 J	9,480 J	12,500 J	11,900	6,440 J	6,700			
Selenium	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U	3.3 U			
Silver	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	0.5 U			
Sodium	38,200	47,400 J	59,000 J	45,300 J	44,200	41,000	32,500	33,700			
Thallium	2.7 B	1.8 U	1.8 UJ	1.8 U	1.5 UJ	1.5	1.5 UJ	1.5 UJ			
Vanadium	1.0 U	18.3 B	9.2 B	12.8 B	1.0 U	7.5	1.0 U	8.4 B			
Zinc	22.3 J	14.0 B	0.50 U	14.7 J	4.3 U	13.9	4.3 U	4.3 U			
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g}/\text{L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Switch to different format for fourth quarter 2007
- 17) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-65

Compound	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11	Quarterly Sampling Results (All Results Expressed in Units of $\mu\text{g/l}$)	
										Trigger Level	CRQL
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	—	38.2 B	26.9 U	—	105.0 B	110 B	6.07	0.20 U	0.034 UJ		200
Antimony	—	4.8 U	4.8 U	—	4.8 U	60 U	0.0062 B	0.060 U	0.060 U	60	60
Arsenic	—	3.6 U	3.6 U	—	3.6 UJ	10 U	0.018	0.010 U	0.010 U	10	10
Barium	—	19.3 B	20.3 B	—	21 B	17 B	##### BEJ	0.023 B	0.029 B	1,000	200
Beryllium	—	2.3 U	2.3 U	—	2.3 U	5.0 UJ	0.002 B	0.0050 U	0.0050 U	5	5
Cadmium	—	0.2 U	0.5 B	—	0.3 B	5.0 U	0.0013 B	0.0050 U	0.00015 B	5	5
Calcium	—	187000	204000	—	201,000	160,000	240.0 J	113.0 J	144		5,000
Chromium	—	7.7 B	2.8 B	—	6.7 B	10 U	0.042 B	0.010 U	0.00068 B	11	10
Cobalt	—	0.5 U	0.5 U	—	0.5 U	50 U	0.010 B	0.050 U	0.050 U		50
Copper	—	5.1 B	9.3 B	—	10.6 B	13 B	0.0066 B	0.025 U	0.014 B	25	25
Iron	—	5.3 U	5.9 B	—	283	110	13.8	0.10 U	0.23	5,000	100
Lead	—	1.6 UJ	2.3 B	—	4.8 J	2.3 J	0.0073	0.0030 UJ	0.0030 U	4.2	3
Magnesium	—	139000	143000	—	138,000	73,400	143 J	40.7	82.2		5,000
Manganese	—	0.5 U	0.5 U	—	0.5 U	4.8 B	0.38	0.0023 B	0.0025 B		15
Mercury	—	0.1 U	0.1 U	—	0.1 U	0.20 U	0.00020 U	0.00015 B	0.00020 U	0.2	0.2
Nickel	—	0.4 U	0.4 U	—	0.4 U	1.5 B	0.021 B	0.0082 B	0.0016 B	96	40
Potassium	—	4220 B	4400 B	—	4,930 B	2,760 B	5.20	2.09 B	3.88 B		5,000
Selenium	—	5.0 J	3.3 U	—	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U	8.5	5
Silver	—	1.1 B	0.5 U	—	0.5 U	10 U	0.010 U	0.010 U	0.010 U	10	10
Sodium	—	33400	34100	—	33,700	24,300	30.3	23.0	25.4		5,000
Thallium	—	1.5 R	3.0 J	—	1.5 UJ	10 U	0.0048 BJ	0.010 UJ	0.010 U	40	10
Vanadium	—	1.0 U	16.2 B	—	15.7 B	14 J	0.012 B	0.0019 B	0.013 B		50
Zinc	—	4.3 U	4.3 U	—	4.3 U	20 U	0.037	0.020 U	0.020 U	86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	—	1,200 J	5,400	13,900 J	3,450	250	6.07	0.10 B	9.60 J		
Antimony	—	4.8 U	4.8 U	4.8 U	4.8 U	60 U	0.0062 B	0.0049 B	0.0056 B		
Arsenic	—	3.6 U	3.6 U	3.6 UJ	3.6 UJ	10 U	0.018	0.010 U	0.0048 B		
Barium	—	25.7 J	43.0 B	79.3 B	35.5 B	20 B	0.041 BEJ	0.024 B	0.068 B		
Beryllium	—	2.3 U	2.3 U	2.3 U	2.3 U	5.0 UJ	0.00022 B	0.0050 U	0.0060 B		
Cadmium	—	0.2 U	1.4 B	2.6 B	1.2 B	5.0 U	0.0013 B	0.0050 U	0.0050 U		
Calcium	—	196,000	217,000	263,000	208,000	168,000	240 J	112 J	181		
Chromium	—	9.8 B	13.0	3.5 J	7.2 B	10 U	0.0042 B	0.010 U	0.019		
Cobalt	—	1.7 B	5.0 B	16.2 B	3.3 B	50 U	0.010 B	0.050 U	0.011 B		
Copper	—	10.6 B	18.2 B	32.9	18.1 B	14 B	0.0066 B	0.025 U	0.032		
Cyanide	—	0.2 U	0.2 U	—	—	16.8	0.0020 B	0.0050 U	—	10	10
Iron	—	3,030	8,410 J	38,400 J	9,320	590 J	13.8	0.23	24.0		
Lead	—	1.6 UJ	8.0	22.4 J	9.3 J	3.2	0.0073	0.0021 J	0.014		
Magnesium	—	141,000	146,000	159,000	135,000	72,600	143 J	40.2	86.8		
Manganese	—	103	360 J	1010	293	20	0.38	0.0097 B	0.63		
Mercury	—	0.1 U	0.1 U	0.1 U	0.2	0.20 U	0.00020 U	0.00014 B	0.00017 B		
Nickel	—	1.9 B	8.9 B	35.9 B	9.9 B	40 U	0.021 B	0.0077 B	0.024 B		
Potassium	—	4,750 J	6,360	8,500 E	5,810	2,820 B	5	2.06 B	6.07		
Selenium	—	3.3 R	3.3 U	3.3 U	3.3 U	5.0 U	0.0050 U	0.0050 U	0.0050 U		
Silver	—	1.3 B	0.5 U	0.5 U	0.5 U	10 U	0.010 U	0.010 U	0.010 U		
Sodium	—	34,900	35,200	36,100	32,500	25,100	30.3	22.0	26.1		
Thallium	—	1.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	10 U	0.0048 BJ	0.010 UJ	0.010 U		
Vanadium	—	1.0 U	25.1 B	1.0 U	14.1 B	13 J	0.012 B	0.0017 B	0.031 B		
Zinc	—	4.3 U	19.7 U	83.3	16.4 B	20 U	0.037	0.020 U	0.060		
Volatile Organic Compounds (VOCs)	—	BRL	BRL	BRL	—	BRL	NS	BRL	NS		
Semi-Volatile Organic Compounds (SVOCs)	—	—	—	—	—	BRL	NS	BRL	NS		
Pesticides / PCBs	—	—	—	—	—	BRL	NS	BRL	NS		

Notes:

- All results expressed in micrograms per liter ($\mu\text{g/L}$).
- Standard Inorganic Data Qualifiers have been used.
- Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- = No Sample Available (Well Dry or Insufficient Volume)
- U = Indicates compound was analyzed for but not detected.
- B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- B = (Organics) Indicates the analyte was detected in the Method Blank.
- UJ = A value less than the CRQL but greater than the MDL.
- J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- CRQL = Contract Required Quantitation Limit
- Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.
- NS-no sampling required for that event

**Skinner Landfill
West Chester, Ohio**

Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-50

Compound	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11	Quarterly Sampling Result (All Results Expressed in Units of $\mu\text{g/l}$)	
										Trigger Level	CRQL
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	15.3 U	34.1 B	26.9 U	26.9 U	57.1 B	200 J	—	0.20 U	0.024 BJ	—	200
Antimony	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	—	0.060 U	0.060 U	60	60
Arsenic	10.0 B	3.6 U	3.6 U	3.6 UJ	3.6 UJ	10 U	—	0.010 U	0.010 U	20	10
Barium	30.9 B	45.1 B	47.9 B	38.5 B	40.5 B	42 B	—	0.036 B	0.033 B	1,000	200
Beryllium	0.10 U	2.30 U	2.30 U	2.3 U	2.3 U	5.0 U	—	0.0050 U	0.0050 U	5	5
Cadmium	0.10 U	0.20 U	0.20 U	0.2 U	0.2 U	5.0 U	—	0.0050 U	0.0050 U	5	5
Calcium	70,500 J	96,600	77,100	66,400 J	96,300	92,700	—	79.1 J	51.8	—	5,000
Chromium	0.20 U	1.90 B	0.90 B	0.7 B	2.3 B	0.49 B	—	0.010 U	0.010 U	11	10
Cobalt	0.30 U	0.50 U	0.60 B	0.5 U	0.5 U	50 U	—	0.050 U	0.050 U	—	50
Copper	0.60 U	5.60 B	6.00 B	3.0 B	5.4 B	5.4 B	—	0.0067 B	0.0076 B	25	25
Iron	8.1 U	5.3 U	6.9 B	5.3 U	5.3 U	100 U	—	0.10 U	0.10 U	7,000	100
Lead	1.2 U	1.6 UJ	1.6 U	1.6 U	3.6 J	3.0 U	—	0.0030 U	0.0030 U	4.2	3
Magnesium	18,600 J	25,700	23,500	17,800 J	28,400	25,100	—	23.1	14.0	—	5,000
Manganese	0.20 U	0.70 B	2.50 B	0.5 U	0.5 U	2.9 B	—	0.0057 B	0.0012 B	—	15
Mercury	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.20 U	—	0.00020 U	0.0009 B	0.2	0.2
Nickel	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	40 U	—	0.040 U	0.040 U	96	40
Potassium	2,800 J	2,400 B	3,080 B	3,290 J	2,450 B	2,580 J	—	1.93 B	2.63 B	—	5,000
Selenium	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	3.3 U	5.0 UJ	—	0.0050 U	0.0050 U	8.5	5
Silver	0.40 U	0.60 B	0.50 U	0.50 U	0.5 U	10 U	—	0.010 U	0.010 U	10	10
Sodium	41,100 J	97,300	64,000	43,900 J	50,700	52,800	—	53.4	36.1	—	5,000
Thallium	1.8 U	1.5 UJ	5.5 J	1.5 U	1.5 UJ	10 U	—	0.0019 B	0.0100 U	40	10
Vanadium	0.90 B	1.00 U	5.00 B	1.0 U	6.7 B	7.4 B	—	0.0056 B	0.0077 B	—	50
Zinc	0.50 UJ	4.30 U	4.30 U	4.3 UJ	4.3 U	20 U	—	0.020 U	0.020 U	86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	24.8 B	173 B	38.1 B	26.9 U	76.3 B	230 J	—	0.048 B	0.17 BJ	—	—
Antimony	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	—	0.060 U	0.060 U	—	—
Arsenic	8.9 B	3.6 U	3.6 U	8.0 B	3.6 U	3.3 B	—	0.010 U	0.010 U	—	—
Barium	32.1 J	47.2 B	46.5 B	37.9 B	40.5 B	43 B	—	0.044 B	0.36 B	—	—
Beryllium	0.10 U	2.3 U	2.3 U	2.3 U	2.3 U	5.0 U	—	0.0050 U	0.0050 U	—	—
Cadmium	0.10 U	0.20 U	0.20 U	0.20 U	0.20 U	5.0 U	—	0.0050 U	0.0050 U	—	—
Calcium	73,200 J	98,800	77,800	66,100 J	95,200	92,000	—	82.3 J	56.1	—	—
Chromium	0.20 U	2.1 B	1.0 B	0.6 B	1.6 B	0.52 B	—	0.00057 B	0.010 U	—	—
Cobalt	0.30 U	0.50 U	0.50 B	0.50 U	0.5 U	50 U	—	0.050 U	0.050 U	—	—
Copper	0.60 U	6.7 B	6.5 B	3.1 B	5.7 B	6.2 B	—	0.010 B	0.0084 B	—	—
Cyanide	0.60 U	0.70 B	0.20 U	1.60 U	1.6 U	4.9 B	—	0.0050 U	0.0050 U	10	10
Iron	19.5 B	253	27.0 B	27.6 B	127	400	—	0.10 U	0.14	—	—
Lead	3.0 UJ	1.6 UJ	1.6 U	1.6 U	2.3 J	3.0 U	—	0.0030 U	0.0030 U	—	—
Magnesium	19,000 J	26,100	23,000	17,700 J	27,700	24,900	—	23.6	13.8	—	—
Manganese	0.20 U	15.5	3.4 B	0.5 U	5.2 B	18	—	0.0094 B	0.020	—	—
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.1 B	0.2 U	—	0.00020 U	0.0008 B	—	—
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	40 U	—	0.040 U	0.040 U	—	—
Potassium	2,810 J	2,470 B	3,210 B	3,280 J	2,470 B	2,800 J	—	1.78 B	2.71 B	—	—
Selenium	3.1 UJ	4.6 J	3.3 UJ	3.3 UJ	3.3 U	5.0 UJ	—	0.0050 U	0.0050 U	—	—
Silver	0.40 U	0.50 U	0.50 U	0.50 U	0.5 U	10 U	—	0.010 U	0.010 U	—	—
Sodium	41,000 J	97,400	65,600	44,300 J	49,300	52,300	—	59.9 J	37.6	—	—
Thallium	9.8 B	1.5 UJ	5.5 J	1.5 U	1.5 UJ	10 U	—	0.010 U	0.010 U	—	—
Vanadium	0.80 U	1.0 U	5.2 B	1.0 U	4.7 B	8.6 B	—	0.0069 B	0.0096 B	—	—
Zinc	0.50 UJ	4.3 U	4.3 U	4.3 UJ	4.3 U	20 U	—	0.020 U	0.020 U	—	—
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	—	BRL	NS	—	—
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	—	BRL	NS	—	—
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	—	BRL	NS	—	—

Notes:

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- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/08.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-51

Compound	Quarterly Sampling Result (All Results Expressed in Units of µg/l)									TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10		
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	27.6 B	26.9 U	103 B			
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U		60	60
Arsenic	2.4 U	2.5 U	2.5 UJ	2.9 B	3.6 U	3.6 U	4.1 UJ	3.6 UJ		20	10
Barium	41.0 B	47.9 B	43.2 B	32.8 B	47.8 B	47.1 B	37.2 B	40.0 B		1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.3 U	2.3 U		5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.2 U	0.2 U		5	5
Calcium	84,500	80,400	81,100	73,700 J	95,000	76,100	64,900 J	93,800			5,000
Chromium	0.60 B	1.4 B	0.20 U	0.20 U	2.30 B	0.90 B	1.2 B	1.9 B		11	10
Cobalt	0.20 U	0.30 U	0.30 U	0.30 U	0.50 U	0.80 B	0.5 U	0.5 U			50
Copper	3.1 B	3.4 B	1.7 B	0.70 B	6.50 B	5.80 B	2.8 B	5.8 B		25	25
Iron	8.5 U	8.1 U	8.1 U	8.1 U	5.3 U	13.6 B	5.3 U	17.4 B		7,000	100
Lead	0.80 U	1.2 B	1.5 B	1.2 U	1.6 UJ	1.6 U	1.6 U	2.9 J		4.2	3
Magnesium	22,100	21,900	25,600 J	18,900 J	25,300	22,500	17,400 J	28,000			5,000
Manganese	0.3 U	1.7 B	31.4	4.8 B	2.3 B	3.5 B	4.6 B	5.6 B			15
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U		0.2	0.2
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U		96	40
Potassium	1,740 B	2,760 B	3,540 B	2,840 J	2,380 B	3,040 B	3,120 J	2,380 B			5,000
Selenium	3.9 U	3.1 UJ	3.1 UJ	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	3.3 U		8.5	5
Silver	0.30 U	0.40 U	1.5 B	0.40 U	0.90 B	0.50 U	0.5	0.5 U		10	10
Sodium	61,400	37,000	42,800 J	42,800 J	96,700	65,200	43,400 J	49,600			5,000
Thallium	6.8 B	1.8 U	3.0 BJ	1.8 U	1.5 UJ	3.5 J	1.5 U	1.5 UJ		40	10
Vanadium	1.5 B	4.8 B	4.8 B	1.6 B	1.0 U	5.0 B	1.0 U	6.8 B			50
Zinc	8.1 B	12.1 B	0.50 U	0.50 UJ	4.30 U	4.30 U	4.3 UJ	4.3 U		86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	117.0 B	44.8 B	15.3 U	24.3 B	58.5 B	46.2 B	26.9 U	52.0 B			
Antimony	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 U	2.5 U	3.7 B	5.1 B	3.6 U	3.6 U	5.9 B	3.6 U			
Barium	40.2 B	42.1 B	50.4 J	33.3 J	46.2 B	49.9 B	36.7 B	42.6 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.30 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.20 U	0.2 U			
Calcium	81,900	72,700	87,200 J	74,400 J	97,000	83,400	65,100 J	98,200			
Chromium	0.6 B	1.3 B	0.20 U	0.20 U	2.10 B	2.80 B	0.40 U	1.9 B			
Cobalt	0.20 U	3.0 U	0.30 U	0.30 U	0.50 U	0.80 B	0.50 U	0.5 U			
Copper	3.2 B	2.4 B	3.0 B	0.60 U	5.80 B	6.10 B	2.90 B	5.4 B			
Cyanide	0.60 U	0.60 U	1.0 B	0.60 U	0.20 U	0.20 U	1.6 U	1.6 U		10	10
Iron	144	79.7 B	84.3 J	50.6 B	45.1 B	106.0	45.6 B	37.2 B			
Lead	0.80 U	1.7 B	1.7 B	3.0 UJ	1.6 UJ	1.6 U	1.6 U	2.9 J			
Magnesium	21,100	19,700	27,100 J	19,000 J	25,700	24,500	17,400 J	28,800			
Manganese	1.9 B	4.6 B	82.4 J	29.3	3.9 B	11.1 B	7.5 B	3.4 B			
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U			
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.50 B	0.40 U	0.4 U			
Potassium	1,710 B	2,470 B	3,680 J	2,860 J	2,430 B	3,250 B	3,140 J	2,500 B			
Selenium	3.90 U	3.1 UJ	3.1 U	3.1 UJ	3.3 UJ	3.3 UJ	3.3 UJ	3.3 U			
Silver	0.30 U	0.40 U	0.40 U	0.40 U	0.50 U	0.50 U	0.50 U	0.5 U			
Sodium	59,000 J	33,300	45,000 J	42,200 J	97,400	69,200	43,400 J	51,700			
Thallium	4.4 B	1.8 U	4.1 B	1.9 B	1.5 UJ	2.6 J	1.5 U	1.5 UJ			
Vanadium	1.0 U	4.1 B	11.8 B	1.6 B	1.0 U	4.6 B	1.0 U	5.1 B			
Zinc	9.1 B	9.8 B	0.50 U	0.50 UJ	4.30 U	4.30 U	4.30 UJ	4.30 U			
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			
Pesticides / PCBs	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-52

Compound	Quarterly Sampling Result (All Results Expressed in Units of $\mu\text{g/l}$)									CRQL
	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11	
Inorganics - Metals (Dissolved)¹⁴										
Aluminum	15.3 U	26.9 U	26.9 U	26.9 U	65.5 B	31 J	—	0.087 B	0.20 U	200
Antimony	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	—	0.060 U	0.060 U	60
Arsenic	3.4 B	3.6 U	3.6 U	9.2 UJ	3.6 UJ	4.5 B	—	0.0036 B	0.010 U	20
Barium	32.0 B	47.0 B	48.6 B	37.3 B	41.8 B	47 B	—	0.040 B	0.036 B	1,000
Beryllium	0.10 U	2.30 U	2.30 U	2.3 U	2.3 U	5.0 U	—	0.0050 U	0.0050 U	5
Cadmium	0.10 U	0.20 U	0.20 B	0.2 U	0.2 U	5.0 U	—	0.0050 U	0.0050 U	5
Calcium	70,400 J	97,900	78,800	64,900 J	95,200	101,000	—	85.6	53.1	5,000
Chromium	0.20 U	2.10 B	0.70 B	1.0 B	2.2 B	10 U	—	0.010 U	0.010 U	11
Cobalt	0.30 U	0.50 U	0.60 B	0.5 U	0.5 U	50 U	—	0.050 U	0.050 U	50
Copper	0.60 U	5.60 B	5.30 B	2.8 B	6.0 B	8.0 B	—	0.025 U	0.0084 B	25
Iron	8.1 U	5.3 U	11.3 B	14.7 B	22.0 B	100 U	—	0.10 U	0.10 U	7,000
Lead	1.2 U	1.6 UJ	1.6 U	1.6 U	4.3 J	1.6 J	—	0.0030 U	0.0030 U	4.2
Magnesium	18,000 J	26,200	23,200	16,900 J	27,700	27,800	—	24.2	14.5	5,000
Manganese	4.4 B	2.6 B	11.4 B	1.3 B	5.0 B	9.3 B	—	0.0041 B	0.0059 B	15
Mercury	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.2 U	—	0.00017 B	0.00009 B	0.2
Nickel	0.40 U	0.40 U	0.90 B	0.4 U	0.4 U	40 U	—	0.0072 B	0.0011 B	96
Potassium	2,750 J	2,440 B	3,060 B	3,130 J	2,400 B	1,880 J	—	1.82 B	2.75 B	5,000
Selenium	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	3.3 U	5.0 U	—	0.0050 UJ	0.0050 U	8.5
Silver	0.40 U	0.50 B	0.50 U	0.5 U	0.5 U	10 U	—	0.00067 B	0.010 U	10
Sodium	41,200 J	101,000	67,900	43,900 J	50,700	61,500	—	58.5	39.3	5,000
Thallium	1.8 U	1.5 UJ	3.3 J	1.5 U	1.5 UJ	10 U	—	0.010 U	0.010 U	40
Vanadium	2.2 B	1.0 U	4.3 B	1.0 U	7.4 B	12 B	—	0.050 U	0.0081 B	50
Zinc	0.50 UJ	4.30 U	4.30 U	4.3 UJ	4.3 U	20 U	—	0.020 UJ	0.020 U	86
Inorganics - Metals and Cyanide (Total)										
Aluminum	18.6 B	59.1 B	47.5 B	335.0	43.5 B	110 J	—	0.20 U	0.027 BJ	
Antimony	1.6 U	4.8 U	4.8 U	4.8 U	4.8 U	60 U	—	0.060 U	0.060 U	
Arsenic	2.8 B	3.6 U	3.6 U	7.3 B	3.6 U	10 U	—	0.0030 B	0.010 U	
Barium	32.3 J	45.6 B	48.8 B	39.0 B	40.0 B	43 B	—	0.038 B	0.034 B	
Beryllium	0.10 U	2.30 U	2.30 U	2.3 U	2.3 U	5.0 U	—	0.0050 U	0.0050 U	
Cadmium	0.10 U	0.20 U	0.20 U	0.2 U	0.2 U	5.0 U	—	0.0050 U	0.0050 U	
Calcium	71,400 J	95,400	80,000	63,800 J	94,400	93,800	—	81.2	55.2	
Chromium	0.20 U	2.10 B	1.00 B	0.6 B	1.7 B	10 U	—	0.010 U	0.010 U	
Cobalt	0.30 U	0.50 U	0.90 B	0.5 U	0.5 U	50 U	—	0.050 U	0.050 U	
Copper	0.60 U	5.80 B	5.70 B	3.2 B	5.2 B	7.8 B	—	0.025 U	0.0068 B	
Cyanide	0.60 U	1.30 B	0.20 U	1.6 U	1.6 U	5.0 U	—	0.0050 U	0.0006 B	10
Iron	60.7 B	43.8 B	86.8 B	643	33.2 B	93.0 B	—	0.10 U	0.10 U	
Lead	3.0 UJ	1.6 UJ	1.6 U	1.6 U	1.6 U	3.0 U	—	0.0030 U	0.0030 U	
Magnesium	18,100 J	25,700	23,200	16,800 J	26,900	25,900	—	22.7	13.3	
Manganese	14.1 B	4.2 B	18.8	33.3	5.9 B	7.9 B	—	0.0063 B	0.011 B	
Mercury	0.10 U	0.10 U	0.10 U	0.1 U	0.2 B	0.2 U	—	0.00015 B	0.00020 U	
Nickel	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	40 U	—	0.0059 B	0.040 U	
Potassium	2,750 J	2,400 B	3,110 B	3,050 J	2,430 B	1,780 J	—	1.71 B	2.49 B	
Selenium	3.1 UJ	3.3 UJ	3.3 UJ	3.3 UJ	3.3 U	5.0 U	—	0.0050 UJ	0.0050 U	
Silver	0.40 U	1.00 B	0.50 U	0.5 U	0.5 U	10 U	—	0.010 U	0.010 U	
Sodium	41,100 J	98,800	69,100	42,700 J	49,600	56,600	—	54.5	37.4	
Thallium	2.9 B	1.5 UJ	7.3 J	1.5 U	1.5 UJ	10 U	—	0.010 U	0.010 U	
Vanadium	1.6 B	1.0 U	4.6 B	1.0 U	4.7 B	9.2 B	—	0.050 U	0.0099 B	
Zinc	0.50 UJ	4.30 U	4.30 U	4.3 UJ	4.3 U	20 U	—	0.020 UJ	0.020 U	
Volatile Organic Compounds (VOCs)										
Semi-Volatile Organic Compounds (SVOCs)										
Pesticides / PCBs										

Notes:

- All results expressed in micrograms per liter ($\mu\text{g/L}$).
- Standard Inorganic Data Qualifiers have been used.
- Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- = No Sample Available (Well Dry or Insufficient Volume)
- U = Indicates compound was analyzed for but not detected.
- B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- (Organics) Indicates the analyte was detected in the Method Blank.
- UJ = A value less than the CRQL but greater than the MDL.
- J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- CRQL = Contract Required Quantitation Limit
- Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-1

Compound	Quarterly Sampling Results (All Results Expressed in Units of mg/l)									TRIGGER LEVEL	CRQL
	Dec-08	Feb-09	Apr-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11		
Inorganics - Metals (Dissolved)¹⁴	Location Dry	Location Dry		Location Dry							
Aluminum	—	—	34.6 B	—	—	—	—	—	—	200	
Antimony	—	—	4.8 U	—	—	—	—	—	—	60	60
Arsenic	—	—	3.6 U	—	—	—	—	—	—	20	10
Barium	—	—	47.4 J	—	—	—	—	—	—	1,000	200
Beryllium	—	—	2.3 U	—	—	—	—	—	—	5	5
Cadmium	—	—	0.2 U	—	—	—	—	—	—	5	5
Calcium	—	—	95200	—	—	—	—	—	—		5,000
Chromium	—	—	1.6 B	—	—	—	—	—	—	11	10
Cobalt	—	—	0.5 U	—	—	—	—	—	—		50
Copper	—	—	5.0 B	—	—	—	—	—	—	25	25
Iron	—	—	5.3 U	—	—	—	—	—	—	7,000	100
Lead	—	—	1.6 UJ	—	—	—	—	—	—	4.2	3
Magnesium	—	—	15700	—	—	—	—	—	—		5,000
Manganese	—	—	0.5 U	—	—	—	—	—	—		15
Mercury	—	—	0.1 U	—	—	—	—	—	—	0.2	0.2
Nickel	—	—	0.4 U	—	—	—	—	—	—	96	40
Potassium	—	—	4990 B	—	—	—	—	—	—		5,000
Selenium	—	—	3.3 U	—	—	—	—	—	—	8.5	5
Silver	—	—	0.5 U	—	—	—	—	—	—	10	10
Sodium	—	—	4270 B	—	—	—	—	—	—		5,000
Thallium	—	—	1.5 UJ	—	—	—	—	—	—	40	10
Vanadium	—	—	1.0 U	—	—	—	—	—	—		50
Zinc	—	—	135	—	—	—	—	—	—	86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	—	—	180 B	—	—	—	—	—	—		
Antimony	—	—	4.8 U	—	—	—	—	—	—		
Arsenic	—	—	3.6 U	—	—	—	—	—	—		
Barium	—	—	49.2 J	—	—	—	—	—	—		
Beryllium	—	—	2.3 U	—	—	—	—	—	—		
Cadmium	—	—	0.2 U	—	—	—	—	—	—		
Calcium	—	—	94200	—	—	—	—	—	—		
Chromium	—	—	1.4 B	—	—	—	—	—	—		
Cobalt	—	—	0.5 U	—	—	—	—	—	—		
Copper	—	—	5.4 B	—	—	—	—	—	—		
Cyanide	—	—	0.2 U	—	—	—	—	—	—	10	10
Iron	—	—	322	—	—	—	—	—	—		
Lead	—	—	1.6 U	—	—	—	—	—	—		
Magnesium	—	—	152000	—	—	—	—	—	—		
Manganese	—	—	6.0 B	—	—	—	—	—	—		
Mercury	—	—	0.1 U	—	—	—	—	—	—		
Nickel	—	—	0.4 U	—	—	—	—	—	—		
Potassium	—	—	5130	—	—	—	—	—	—		
Selenium	—	—	3.3 U	—	—	—	—	—	—		
Silver	—	—	0.5 U	—	—	—	—	—	—		
Sodium	—	—	4290 B	—	—	—	—	—	—		
Thallium	—	—	1.5 UJ	—	—	—	—	—	—		
Vanadium	—	—	1.0 U	—	—	—	—	—	—		
Zinc	—	—	142	—	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	—	—	BRL	—	—	—	—	—	—		
Semi-Volatile Organic Compounds (SVOCs)	—	—	BRL	—	—	—	—	—	—		
Pesticides / PCBs	—	—	BRL	—	—	—	—	—	—		

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g/L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for **Dissolved** Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-2

Compound	Quarterly Sampling Results (All Results Expressed in Units of mg/l)									TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Apr-09	Sep-09	Dec-09	Mar-10		
Inorganics - Metals (Dissolved)¹⁴			Location Dry								
Aluminum	15.4 U	15.3 U	—	—	—	—	—	—			
Antimony	2.4 U	1.6 U	—	—	—	—	—	—		60	60
Arsenic	2.4 U	2.5 U	—	—	—	—	—	—		20	10
Barium	20.8 B	45.3 B	—	—	—	—	—	—		1,000	200
Beryllium	0.10 U	0.10 U	—	—	—	—	—	—		5	5
Cadmium	0.10 U	0.10 U	—	—	—	—	—	—		5	5
Calcium	109,000	117,000	—	—	—	—	—	—			5,000
Chromium	0.50 B	2.0 B	—	—	—	—	—	—		11	10
Cobalt	0.20 U	0.30 U	—	—	—	—	—	—			50
Copper	3.0 B	3.0 B	—	—	—	—	—	—		25	25
Iron	8.5 U	8.1 U	—	—	—	—	—	—		7,000	100
Lead	0.8 U	1.2 U	—	—	—	—	—	—		4.2	3
Magnesium	31,200	33,600	—	—	—	—	—	—			5,000
Manganese	0.30 U	0.20 U	—	—	—	—	—	—			15
Mercury	0.10 U	0.10 U	—	—	—	—	—	—		0.2	0.2
Nickel	0.40 U	0.40 U	—	—	—	—	—	—		96	40
Potassium	1,870 B	2,730 B	—	—	—	—	—	—			5,000
Selenium	3.9 U	3.1 U	—	—	—	—	—	—		8.5	5
Silver	0.30 U	0.40 U	—	—	—	—	—	—		10	10
Sodium	2,350 B	2,470 B	—	—	—	—	—	—			5,000
Thallium	5.0 B	1.8 B	—	—	—	—	—	—		40	10
Vanadium	1.0 U	9.8 B	—	—	—	—	—	—			50
Zinc	9.9 B	10.0 B	—	—	—	—	—	—		86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	15.4 U	15.3 U	—	—	—	—	—	—			
Antimony	2.4 U	1.6 U	—	—	—	—	—	—			
Arsenic	2.4 U	2.5 U	—	—	—	—	—	—			
Barium	19.5 B	44.9 B	—	—	—	—	—	—			
Beryllium	0.10 U	0.10 U	—	—	—	—	—	—			
Cadmium	0.10 U	0.10 U	—	—	—	—	—	—			
Calcium	108,000	118,000	—	—	—	—	—	—			
Chromium	0.5 B	1.8 B	—	—	—	—	—	—			
Cobalt	0.20 U	0.30 U	—	—	—	—	—	—			
Copper	2.8 B	2.7 B	—	—	—	—	—	—			
Cyanide	0.60 U	0.70 B	—	—	—	—	—	—			
Iron	8.50 U	8.1 U	—	—	—	—	—	—			
Lead	0.80 U	1.2 U	—	—	—	—	—	—			
Magnesium	30,100	32,600	—	—	—	—	—	—			
Manganese	0.30 U	0.20 U	—	—	—	—	—	—			
Mercury	0.10 U	0.10 U	—	—	—	—	—	—			
Nickel	0.40 U	0.40 U	—	—	—	—	—	—			
Potassium	1,810 B	2,650 B	—	—	—	—	—	—			
Selenium	3.90 U	3.1 U	—	—	—	—	—	—			
Silver	0.30 U	0.40 U	—	—	—	—	—	—			
Sodium	1,930 B	2,300 B	—	—	—	—	—	—			
Thallium	4.6 B	1.8 U	—	—	—	—	—	—			
Vanadium	1.0 U	8.8 B	—	—	—	—	—	—			
Zinc	12.4 B	9.0 B	—	—	—	—	—	—			
Volatile Organic Compounds (VOCs)	BRL	BRL	—	—	—	—	—	—			
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	—	—	—	—	—	—			
Pesticides / PCBs	BRL	BRL	—	—	—	—	—	—			

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g/L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-3

Compound	Sep-08	Dec-08	Feb-09	Apr-09	Sep-09	Dec-09	Mar-10	Sep-11	Mar-11	Sep-11	TRIGGER LEVEL	CRQL
Quarterly Sampling Results (All Results Expressed in Units of mg/l)												
Inorganics - Metals (Dissolved)¹⁴	Location Dry	Location Dry	Location Dry		Location Dry							
Aluminum	—	—	—	27 U	—	—	—	—	—	—	60	200
Antimony	—	—	—	4.8 U	—	—	—	—	—	—	20	60
Arsenic	—	—	—	3.6 U	—	—	—	—	—	—	1,000	10
Barium	—	—	—	9.5 J	—	—	—	—	—	—	5	200
Beryllium	—	—	—	2.3 U	—	—	—	—	—	—	5	5
Cadmium	—	—	—	0.2 U	—	—	—	—	—	—	5	5
Calcium	—	—	—	35800	—	—	—	—	—	—		5,000
Chromium	—	—	—	0.4 U	—	—	—	—	—	—	11	10
Cobalt	—	—	—	0.5 U	—	—	—	—	—	—	50	
Copper	—	—	—	2.5 B	—	—	—	—	—	—	25	25
Iron	—	—	—	15.9 B	—	—	—	—	—	—	7,000	100
Lead	—	—	—	1.6 UJ	—	—	—	—	—	—	4.2	3
Magnesium	—	—	—	3970 B	—	—	—	—	—	—		5,000
Manganese	—	—	—	0.5 U	—	—	—	—	—	—		15
Mercury	—	—	—	0.1 U	—	—	—	—	—	—	0.2	0.2
Nickel	—	—	—	0.6 B	—	—	—	—	—	—	96	40
Potassium	—	—	—	3080 B	—	—	—	—	—	—		5,000
Selenium	—	—	—	3.3 U	—	—	—	—	—	—	8.5	5
Silver	—	—	—	0.5 U	—	—	—	—	—	—	10	10
Sodium	—	—	—	949 B	—	—	—	—	—	—		5,000
Thallium	—	—	—	1.5 UJ	—	—	—	—	—	—	40	10
Vanadium	—	—	—	1.0 U	—	—	—	—	—	—	50	
Zinc	—	—	—	4.3 U	—	—	—	—	—	—	86	20
Inorganics - Metals and Cyanide												
(Total)												
Aluminum	—	—	—	162 B	—	—	—	—	—	—		
Antimony	—	—	—	4.8 U	—	—	—	—	—	—		
Arsenic	—	—	—	3.6 U	—	—	—	—	—	—		
Barium	—	—	—	10.8 J	—	—	—	—	—	—		
Beryllium	—	—	—	2.3 U	—	—	—	—	—	—		
Cadmium	—	—	—	0.2 U	—	—	—	—	—	—		
Calcium	—	—	—	37500	—	—	—	—	—	—		
Chromium	—	—	—	0.4 B	—	—	—	—	—	—		
Cobalt	—	—	—	0.5 U	—	—	—	—	—	—		
Copper	—	—	—	6.6 B	—	—	—	—	—	—		
Cyanide	—	—	—	0.2 U	—	—	—	—	—	—	10	10
Iron	—	—	—	304	—	—	—	—	—	—		
Lead	—	—	—	1.6 UJ	—	—	—	—	—	—		
Magnesium	—	—	—	4210 B	—	—	—	—	—	—		
Manganese	—	—	—	6.7 B	—	—	—	—	—	—		
Mercury	—	—	—	0.1 U	—	—	—	—	—	—		
Nickel	—	—	—	0.4 U	—	—	—	—	—	—		
Potassium	—	—	—	3310 B	—	—	—	—	—	—		
Selenium	—	—	—	3.3 U	—	—	—	—	—	—		
Silver	—	—	—	0.5 U	—	—	—	—	—	—		
Sodium	—	—	—	739 B	—	—	—	—	—	—		
Thallium	—	—	—	1.5 UJ	—	—	—	—	—	—		
Vanadium	—	—	—	1.0 U	—	—	—	—	—	—		
Zinc	—	—	—	4.3 U	—	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	—	—	—	BRL	—	—	—	—	—	—		
Semi-Volatile Organic Compounds (SVOCs)	—	—	—		—	—	—	—	—	—		
Pesticides / PCBs	—	—	—	BRL	—	—	—	—	—	—		

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g/L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill
West Chester, Ohio**
Groundwater Analysis Summary Table for GW-24

Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
Compound	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10		
Inorganics - Metals (Dissolved)¹⁴	Annual	Not Sampled	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled	Not Sampled	Sampling no longer required - see note 16		
Aluminum	15.6 B				35.3 B					200	
Antimony	2.4 U				4.8 U					60	60
Arsenic	3.7 B				5.0 J					20	10
Barium	86.7 B				101 B					1,000	200
Beryllium	0.10 U				2.3 U					5	5
Cadmium	0.10 U				0.2 U					5	5
Calcium	119,000				122000						5,000
Chromium	0.30 U				2.1 B					11	10
Cobalt	0.20 U				0.5 U						50
Copper	1.6 B				4.9 B					25	25
Iron	514.0				984					7,000	100
Lead	1.80 B				1.6 UJ					4.2	3
Magnesium	25,900				30000						5,000
Manganese	96.1				232						15
Mercury	0.10 U				0.1 U					0.2	0.2
Nickel	0.40 U				0.4 U					96	40
Potassium	2,520 B				3640 B						5,000
Selenium	3.9 U				3.3 U					8.5	5
Silver	0.30 U				0.5 U					10	10
Sodium	15,700 B				101000						5,000
Thallium	6.7 B				1.5 R					40	10
Vanadium	1.0 U				1.0 U						50
Zinc	12.5 B				4.3 U					86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	4,870 J				363 J						
Antimony	2.4 U				4.8 U						
Arsenic	2.4 UJ				4.3 J						
Barium	109 B				105 J						
Beryllium	0.20 B				2.3 U						
Cadmium	0.10 U				0.2 U						
Calcium	171,000				135000						
Chromium	8.2 B				3.2 B						
Cobalt	5.0 B				0.5 U						
Copper	9.9 B				5.6 B						
Cyanide	1.30 B				0.7 B					10	10
Iron	11,600				1900						
Lead	4.3 J				1.6 UJ						
Magnesium	35,000				33000						
Manganese	420				261						
Mercury	0.10 U				0.1 U						
Nickel	9.4 B				0.4 U						
Potassium	4,020 J				3780 J						
Selenium	3.9 U				3.3 R						
Silver	0.30 U				0.6 B						
Sodium	15,100				93800						
Thallium	1.9 B				1.5 UJ						
Vanadium	6.9 B				1.0 U						
Zinc	44.9 J				4.3 U						
Volatile Organic Compounds (VOCs)	BRL				BRL						
Semi-Volatile Organic Compounds (SVOCs)	BRL				BRL						
Pesticides / PCBs	BRL				BRL						

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicated compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-26

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)									TRIGGER LEVEL	CRQL
	Sep-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10	Sep-10	Mar-11	Sep-11		
<u>Inorganics - Metals (Dissolved)¹⁴</u>	Not Sampled	Annual	Not Sampled	Not Sampled	Not Sampled	Semi-annual	Semi-annual	Semi-annual	Semi-annual		
Aluminum		26.9 U				470	0.20	0.15 B	0.20 U		200
Antimony		4.8 U				60 U	0.060	0.060 U	0.060 U	60	60
Arsenic		3.6 U				10 U	0.0038	0.010 U	0.010 U	20	10
Barium	780					300	0.60 J	0.83	0.47	1,000	200
Beryllium		2.3 U				5.0 UJ	0.0050	0.0050 U	0.0050 U	5	5
Cadmium		0.2 U				5.0 U	0.00048	0.0050 U	0.00048 B	5	5
Calcium	67900					72000	61.6 J	68.0 J	56.9		5,000
Chromium		2.6 B				10 U	0.010	0.00043 B	0.010 U	11	10
Cobalt		0.5 U				0.92 B	0.0017	0.050 U	0.050 U		50
Copper		5.5 B				8.6 B	0.025	0.0072 B	0.0091 B	25	25
Iron		68.4 B				100 U	0.18	0.068 B	0.14	7,000	100
Lead		1.6 UJ				3.0 J	0.0030	0.0030 U	0.0030 U	4.2	3
Magnesium	36,100					38,100	32.3 J	36.30	37.4		5,000
Manganese	77.7					52	0.092	0.080	0.075		15
Mercury		0.1 U				0.20 U	0.00020	0.00020 U	0.00020 U	0.2	0.2
Nickel		0.4 U				40 U	0.0036	0.040 U	0.040 U	96	40
Potassium	20,100					16,300	17.6	19.8	19.2		5,000
Selenium		3.3 UJ				5.0 U	0.0050	0.0050 U	0.0050 U	8.5	5
Silver		0.5 U				10 U	0.010	0.010 U	0.010 U	10	10
Sodium	195,000					144,000	189	185	184		5,000
Thallium		1.5 R				10 U	0.0045 J	0.010 U	0.010 U	40	10
Vanadium		1 U				13 J	0.0057	0.0071 B	0.013 B		50
Zinc		4.3 U				20 U	0.020	0.020 U	0.020 U	86	20
<u>Inorganics - Metals and Cyanide (Total)</u>											
Aluminum		92.4 J				390	0.52	0.064 B	0.043 BJ		
Antimony		4.8 U				60 U	0.060	0.060 U	0.060 U		
Arsenic		3.6 U				10 U	0.011	0.010 U	0.010 U		
Barium		859 J				300	0.62 EJ	0.79	0.45		
Beryllium		2.3 U				5.0 UJ	0.0050	0.0050 U	0.0050 U		
Cadmium		0.2 U				5.0 U	0.00045	0.0050 U	0.0050 U		
Calcium	73,600					77,800	67.2 J	64.4 J	66.3		
Chromium		2.8 B				10 U	0.010	0.00064 B	0.010 U		
Cobalt		0.5 U				50 U	0.0032	0.050 U	0.050 U		
Copper		6.0 B				17 B	0.025	0.0079 B	0.0095 B		
Cyanide		0.2 U				7.4	0.0 U	0.0050 U	0.0008 B	10	10
Iron		465				270.0	2.22	0.24	0.41		
Lead		1.6 U				4.1 J	0.0030	0.0030 U	0.0030 U		
Magnesium	39200					40600	32.8 J	34.0	35.9		
Manganese	88.5					55.0	0.13	0.061	0.071		
Mercury		0.1 U				0.20 U	0.00020	0.00020 U	0.00020 U		
Nickel		0.4 U				1.7 B	0.0059	0.040 U	0.040 U		
Potassium	21,900 J					17,400	17.7	19.0	18.5		
Selenium		3.3 R				5.0 U	0.0050	0.0050 U	0.0050 U		
Silver		0.5 U				10 U	0.010	0.010 U	0.010 U		
Sodium	213,000					154,000	187	184	179		
Thallium		1.5 UJ				10 U	0.0021 J	0.010 U	0.010 U		
Vanadium		1.0 U				12 J	0.0069	0.0064 B	0.012 B		
Zinc		4.3 U				20 U	0.020	0.020 U	0.020 U		
<u>Volatile Organic Compounds (VOCs)</u>		BRL				BRL	Not sampled	BRL	Not sampled		
<u>Semi-Volatile Organic Compounds (SVOCs)</u>		BRL				BRL	Not Sampled	BRL	Not sampled		
<u>Pesticides / PCBs</u>		BRL				BRL	Not Sampled	BRL	Not sampled		

Notes:

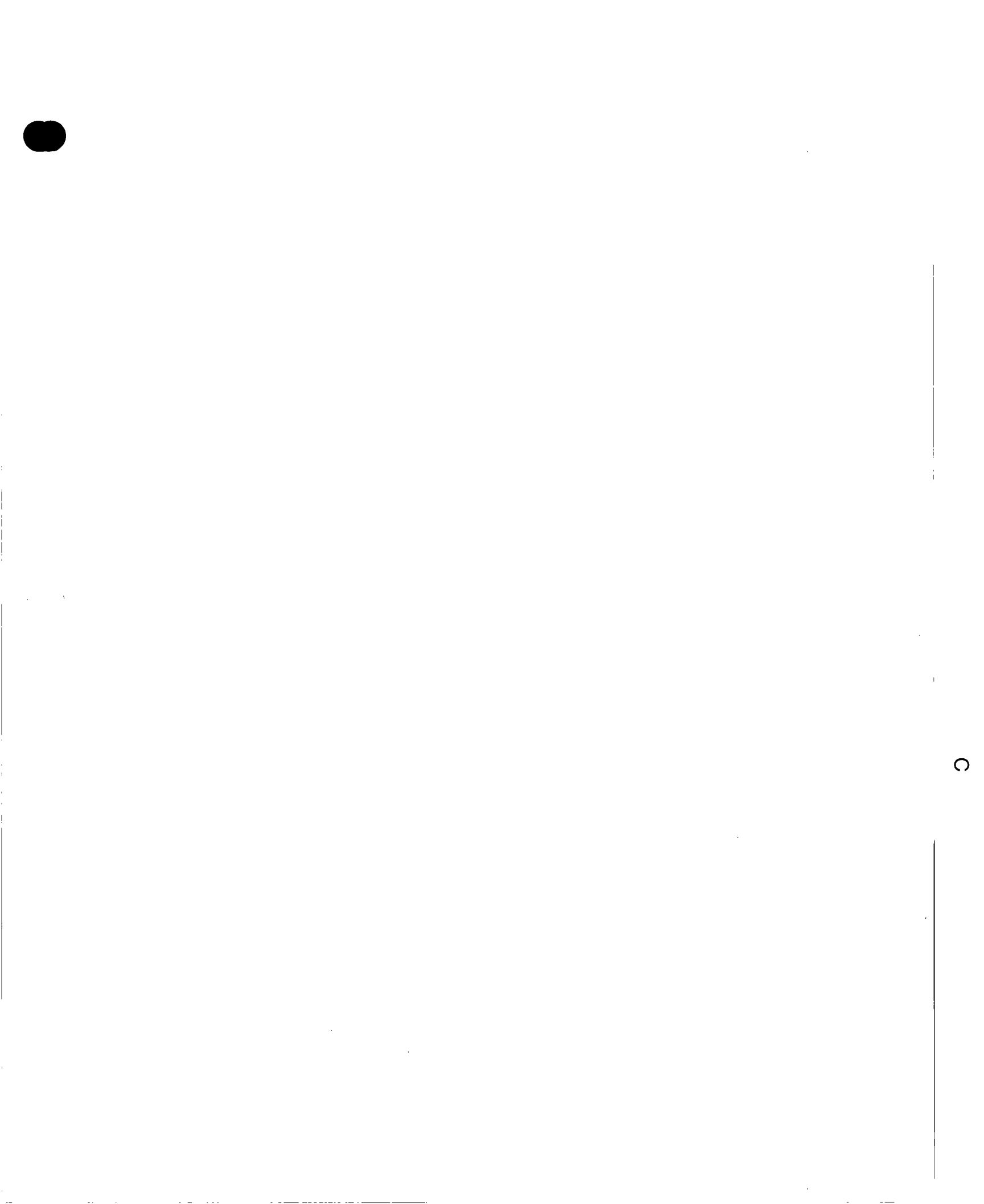
- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling frequency reduced to semi-annual as per petition report dated 5/15/08 and EPA approval letter dated 11/24/09.

**Skinner Landfill
West Chester, Ohio**
Groundwater Analysis Summary Table for GW-30

Compound	Quarterly Sampling Results (All Results Expressed in Units of mg/l)									TRIGGER LEVEL	CRQL
	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Dec-09	Mar-10		
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	15.4 U				26.9 U						
Antimony	2.4 U				4.8 U						
Arsenic	2.6 B				3.6 U						
Barium	188.0 B				439						
Beryllium	0.10 U				2.3 U						
Cadmium	0.10 U				0.2 U						
Calcium	58,000				68900						
Chromium	0.30 B				2.5 B						
Cobalt	0.20 U				0.5 U						
Copper	2.2 B				4.9 B						
Iron	127.0				342						
Lead	0.80 U				1.6 UJ						
Magnesium	28,300				31400						
Manganese	17.3				30.8						
Mercury	0.10 U				0.1 U						
Nickel	0.70 B				0.4 U						
Potassium	12,200				12800						
Selenium	3.9 U				3.3 UJ						
Silver	0.30 U				0.5 B						
Sodium	138,000				144000						
Thallium	4.5 B				1.5 R						
Vanadium	1.0 U				1.0 U						
Zinc	7.7 B				4.3 U						
Inorganics - Metals and Cyanide (Total)											
Aluminum	15.4 UJ				57.7 J						
Antimony	2.4 U				4.8 U						
Arsenic	2.4 UJ				5.1 J						
Barium	201.0				495.0 J						
Beryllium	0.10 U				2.30 U						
Cadmium	0.10 U				0.20 U						
Calcium	61,100				74,000						
Chromium	0.50 B				2.00 B						
Cobalt	0.20 U				0.50 U						
Copper	4.3 B				5.4 B						
Cyanide	0.60 U				0.20 U						
Iron	303				622						
Lead	0.80 UJ				1.60 UJ						
Magnesium	29,600				34,200						
Manganese	22.4				36.8						
Mercury	0.10 U				0.10 U						
Nickel	0.40 U				0.40 U						
Potassium	13,400 J				13,700 J						
Selenium	3.9 U				3.3 R						
Silver	0.30 U				0.70 B						
Sodium	145,000				153,000						
Thallium	3.9 B				1.5 UJ						
Vanadium	1.2 B				1.0 U						
Zinc	10.3 J				4.3 U						
Volatile Organic Compounds (VOCs)	BRL				BRL						
Semi-Volatile Organic Compounds (SVOCs)	BRL				BRL						
Pesticides / PCBs	BRL				BRL						

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g/L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Sampling of this well is no longer required based on petition report dated 05/15/08 and EPA approval letter dated 11/24/09.



**DATA VALIDATION REPORT
FOR
SKINNER LANDFILL SITE
AECOM: PROJECT NUMBER 60212628
LABORATORY REPORT NUMBER 211092613
PROJECT MANAGER: Ron Roelker
Date: November 15, 2011
Data Validator: Robert Davis**

LIST OF ACRONYMS

CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CRDL	Contract Required Detection Limit
GCAL	Gulf Coast Analytical Laboratories
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
LCS	Laboratory Control Sample
MB	Method Blank
MS/MSD	Matrix Spike/Matrix Spike Duplicate
%D	Percent Difference
PB	Preparation Blanks
QC	Quality Control
RPD	Relative Percent Difference
SDG	Sample Delivery Group
US EPA	United States Environmental Protection Agency

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 211092613

INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2011 was conducted by AECOM using the National Functional Guidelines for Inorganic Data Review, (US EPA, March, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Groups (SDG) 211092613.

GCAL #	Sample Description
21109261301	SK-SW50-1036
21109261302	SK-MS-1036-(SW50)
21109261303	SK-MSD-1036-(SW50)
21109261304	SK-SW52-1036
21109261305	SK-FD-1036(SW52)
21109261306	SK-GW65-1036
21109261307	SK-GW63-1036
21109261308	SK-GW61-1036
21109261309	SK-FD-1036(GW61)
21109261310	SK-GW59-1036
21109261311	SK-GW58-1036
21109261312	SK-MS-1036 (GW58)
21109261313	SK-MSD-1036 (GW58)
21109261314	SK-GW07R
21109261315	SK-GW26-1036

INTRODUCTION

Inorganic (metals) analyses were performed according to SW-846 methods 6010B and 7470A. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user.

Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
 - A. Initial Calibration (IC)
 - B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. Documentation
10. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

The percent recovery for Aluminum in the Contract Required Detection Limit (CRDL) standard analyzed on 10/3/2011 was 126 %.

The percent recovery for Calcium in the Contract Required Detection Limit (CRDL) standard analyzed on 10/5/2011 was 144 %.

As per the National Functional Guidelines, if the CRDL percent recovery is less than 80% then detected results are qualified "J" and non-detected results are qualified with "UJ". If the CRDL percent recovery is greater than 120% then detected results are qualified "J".

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Method Blanks (MB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB's, CCB's, or Method Blanks above the corresponding practical quantitation limit.

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used samples SK-SW52-1036 and SK-GW61-1036 (total and dissolved fractions) for the duplicate samples. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target analytes except for the following: Manganese associated with the dissolved fraction for SK-GW61-1036 and SK-FD-1036(GW61). As per the National Functional Guidelines, if the duplicate RPD criteria are not met then qualify the associated data as estimated "J".

7. SPIKE SAMPLE ANALYSIS

The laboratory used samples SK-SW50-1036 and SK-GW58-1036 (total and dissolved fractions) for the matrix spike sample. The MS/MSD percent recoveries were within the acceptance criteria (75-125%) for all target analytes with the exception of Calcium (MS 70 %) associated with sample SK-SW50-1036 (total), Calcium (MS/MSD 168/226 %) and Magnesium (MS/MSD 126/138 %) associated with sample SK-GW58-1036 (total), Calcium (MS/MSD 146/42 %) associated with sample SK-SW50-1036 (dissolved), and Calcium (MSD 185 %) associated with sample SK-GW58-1036 (dissolved). The concentrations of Calcium and Magnesium in the samples exceeded the spiking concentration by a factor greater than 4 times therefore data qualification was not required.

The post digestion spike percent recoveries for Calcium (129%) associated with sample SK-SW58-1036 (total) and Calcium (265 %) associated with sample SK-GW58-1036 (dissolved) exceeded the acceptance criteria which indicates a possible chemical or physical interference associated with the matrix of the sample.

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 10 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. GCAL selected samples SK-GW58-1036 and SK-SW50-1036 (total and dissolved fractions) for serial dilution. The serial dilution percent differences were within the acceptance criteria for all target analytes.

9. DOCUMENTATION

The documentation submitted for review appeared accurate and in order.

10. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 211092613

CYANIDE

Validation of the cyanide data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2011 was conducted by AECOM using the National Functional Guidelines for Inorganic Data Review, (US EPA, March, 1994), as appropriate. The results were reported by GCAL under SDG 211092613.

GCAL #	Sample Description
21109261301	SK-SW50-1036
21109261302	SK-MS-1036-(SW50)
21109261303	SK-MSD-1036-(SW50)
21109261304	SK-SW52-1036
21109261305	SK-FD-1036(SW52)
21109261306	SK-GW65-1036
21109261307	SK-GW63-1036
21109261308	SK-GW61-1036
21109261309	SK-FD-1036(GW61)
21109261310	SK-GW59-1036
21109261311	SK-GW58-1036
21109261312	SK-MS-1036 (GW58)
21109261313	SK-MSD-1036 (GW58)
21109261314	SK-GW07R
21109261315	SK-GW26-1036

INTRODUCTION

Cyanide analyses were performed according to SW-846 method 9012. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user.

Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
 - A. Initial Calibration (IC)
 - B. Continuing Calibration (CC)
3. Blanks
4. Laboratory Control Sample (LCS)
5. Duplicate Analysis
6. Matrix Spike
7. Documentation
8. Overall Assessment

1. HOLDING TIMES

Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the ICV standard were within QC limits for all constituents.

B. Continuing Calibration

The percent recoveries for the CCV standard were within QC limits for all constituents.

3. BLANKS

The ICB, CCB, and PB were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB above the corresponding Practical Quantitation Limit.

4. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

5. DUPLICATE ANALYSIS

The laboratory used samples SK-SW52-1036 and SK-GW61-1036 for the duplicate samples. The RPD between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target analytes.

6. MATRIX SPIKE

The laboratory used samples SK-SW50-1036 and SK-GW58-1036 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75-125%) for all target analytes.

7. DOCUMENTATION

The documentation submitted for review appeared accurate and in order.

8. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.



NELAP CERTIFICATE NUMBER 01955
DOD ELAP CERTIFICATE NUMBER ADE - 1482

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date 10/10/2011

GCAL Report 211092613



Deliver To AECOM
One Midtown Plaza
1360 Peachtree St Suite 500
Atlanta, GA 30309
770-990-1400

Attn Mark Kromis

Project Skinner Landfill

CASE NARRATIVE

Client: AECOM **Report:** 211092613

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

METALS

Several Dissolved Metals concentrations are greater than the Total concentration of these metals in several samples. This is attributed to separate aliquots of sample.

In the SW-846 6010B analysis for prep batch 466024, the MS/MSD recoveries are not applicable for Calcium and Magnesium because the sample concentration is greater than four times the spike concentration.

In the SW-846 6010B Dissolved analysis for prep batch 466023, the MS/MSD recoveries are not applicable for Calcium because the sample concentration is greater than four times the spike concentration.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Robyn Miguez
Technical Director
GCAL REPORT 211092613

THIS REPORT CONTAINS 155 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109261301	SK-SW50-1036	Water	09/22/2011 13:50	09/24/2011 09:05
21109261302	SK-MS-1036-(SW50)	Water	09/22/2011 13:50	09/24/2011 09:05
21109261303	SK-MSD-1036-(SW50)	Water	09/22/2011 13:50	09/24/2011 09:05
21109261304	SK-SW52-1036	Water	09/22/2011 14:35	09/24/2011 09:05
21109261305	SK-FD-1036 (SW52)	Water	09/22/2011 14:35	09/24/2011 09:05
21109261306	SK-GW65-1036	Water	09/23/2011 09:25	09/24/2011 09:05
21109261307	SK-GW63-1036	Water	09/23/2011 09:45	09/24/2011 09:05
21109261308	SK-GW61-1036	Water	09/23/2011 10:00	09/24/2011 09:05
21109261309	SK-FD-1036 (GW61)	Water	09/23/2011 10:05	09/24/2011 09:05
21109261310	SK-GW59-1036	Water	09/23/2011 10:15	09/24/2011 09:05
21109261311	SK-GW58-1036	Water	09/23/2011 10:30	09/24/2011 09:05
21109261312	SK-MS-1036 (GW58)	Water	09/23/2011 10:35	09/24/2011 09:05
21109261313	SK-MSD-1036 (GW58)	Water	09/23/2011 10:40	09/24/2011 09:05
21109261314	SK-GW07R	Water	09/23/2011 10:55	09/24/2011 09:05
21109261315	SK-GW26-1036	Water	09/23/2011 11:10	09/24/2011 09:05

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract: _____
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211092613
SOW No.: _____

<i>EPA Sample No.</i>	<i>Lab Sample ID.</i>
<u>SK-GW58-1036</u>	<u>21109261311</u>
<u>SK-MS-1036 (GW58)</u>	<u>21109261312</u>
<u>SK-MSD-1036 (GW58)</u>	<u>21109261313</u>
<u>SK-GW07R</u>	<u>21109261314</u>
<u>SK-GW26-1036</u>	<u>21109261315</u>

Were ICP interelement corrections applied ? Yes / No YES
Were ICP background corrections applied ? Yes / No YES
If yes-were raw data generated before application of background corrections ? Yes / No NO

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL

Contract: _____

Lab Code: LA024 Case No.: _____

SAS No.: _____ SDG No.: 211092613

SOW No.: _____

EPA Sample No.	Lab Sample ID.
SK-SW50-1036	21109261301
SK-MS-1036-(SW50)	21109261302
SK-MSD-1036-(SW50)	21109261303
SK-SW52-1036	21109261304
SK-FD-1036 (SW52)	21109261305
SK-GW65-1036	21109261306
SK-GW63-1036	21109261307
SK-GW61-1036	21109261308
SK-FD-1036 (GW61)	21109261309
SK-GW59-1036	21109261310
SK-GW58-1036	21109261311
SK-MS-1036 (GW58)	21109261312
SK-MSD-1036 (GW58)	21109261313
SK-GW07R	21109261314
SK-GW26-1036	21109261315
SK-SW50-1036	21109261301
SK-MS-1036-(SW50)	21109261302
SK-MSD-1036-(SW50)	21109261303
SK-SW52-1036	21109261304
SK-FD-1036 (SW52)	21109261305
SK-GW65-1036	21109261306
SK-GW63-1036	21109261307
SK-GW61-1036	21109261308
SK-FD-1036 (GW61)	21109261309
SK-GW59-1036	21109261310

Were ICP interelement corrections applied ?

Yes / No YES

Were ICP background corrections applied ?

Yes / No YES

If yes-were raw data generated before
application of background corrections ?

Yes / No NO

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW50-1036
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Water SAS No.: SDG No.: 211092613
 Level: (low / med) % Solids: Lab Sample ID: 21109261301
 Date Received: 09/24/11 Time: 0905 Date Collected: 09/22/11 Time: 1350

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.17	mg/L	B	0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.036	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	56.1	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00034	0.010	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00052	0.050	SW-846 6010B	P
Copper	0.0084	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	0.14	mg/L		0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	13.8	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.020	mg/L		0.00083	0.015	SW-846 6010B	P
Mercury	0.00008	mg/L	B	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.040	mg/L	U	0.00084	0.040	SW-846 6010B	P
Potassium	2.71	mg/L	B	0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	37.6	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.0096	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0059	0.020	SW-846 6010B	P

T

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW50-1036
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Water SAS No.: SDG No.: 211092613
 Level: (low / med) % Solids: Lab Sample ID: 21109261301
 Date Received: 09/24/11 Time: 0905 Date Collected: 09/22/11 Time: 1350

Analyte Concentration Units C MDL PQL Method Type

Aluminum (Dissolved)	0.024	mg/L	B	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.033	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	51.8	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.0076	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.10	mg/L	U	0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	14.0	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.0012	mg/L	B	0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00009	mg/L	B	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.040	mg/L	U	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	2.63	mg/L	B	0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	36.1	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0077	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

FORM I - IN

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12/2/10
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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-SW52-1036
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261304
 Date Collected: 09/22/11 Time: 1435

Analyte Concentration Units C MDL PQL Method Type

Aluminum	0.027	mg/L	B	0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.034	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	55.2	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00034	0.010	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00052	0.050	SW-846 6010B	P
Copper	0.0068	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	0.10	mg/L	U	0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	13.3	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.011	mg/L	B	0.00083	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.040	mg/L	U	0.00084	0.040	SW-846 6010B	P
Potassium	2.49	mg/L	B	0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	37.4	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.0099	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0059	0.020	SW-846 6010B	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-FD-1036 (SW52)
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261305
 Date Collected: 09/22/11 Time: 1435

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.038	mg/L	B	0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.035	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	56.0	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00034	0.010	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00052	0.050	SW-846 6010B	P
Copper	0.0065	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	0.10	mg/L	U	0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	13.6	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.011	mg/L	B	0.00083	0.015	SW-846 6010B	P
Mercury	0.00008	mg/L	B	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.040	mg/L	U	0.00084	0.040	SW-846 6010B	P
Potassium	2.50	mg/L	B	0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	37.9	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.0080	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0059	0.020	SW-846 6010B	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW52-1036
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Water SAS No.: SDG No.: 211092613
 Level: (low / med) % Solids: Lab Sample ID: 21109261304
 Date Received: 09/24/11 Time: 0905 Date Collected: 09/22/11 Time: 1435

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.036	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	53.1	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.0084	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.10	mg/L	U	0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	14.5	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.0059	mg/L	B	0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00009	mg/L	B	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0011	mg/L	B	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	2.75	mg/L	B	0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	39.3	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0081	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Matrix: (soil / water) Water
 Level: (low / med) % Solids:
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-FD-1036 (SW52)
 Contract:
 SAS No.: SDG No.: 211092613
 Lab Sample ID: 21109261305
 Date Collected: 09/22/11 Time: 1435

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.033	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	51.5	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.0063	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.10	mg/L	U	0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	14.3	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.0058	mg/L	B	0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.040	mg/L	U	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	2.66	mg/L	B	0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	38.3	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.0075	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Matrix: (soil / water) Water
 Level: (low / med) % Solids:
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW65-1036
 Contract:
 SAS No.: SDG No.: 211092613
 Lab Sample ID: 21109261306
 Date Collected: 09/23/11 Time: 0925

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	9.60	mg/L		0.024	0.20	SW-846 6010B	P
Antimony	0.0056	mg/L	B	0.0040	0.060	SW-846 6010B	P
Arsenic	0.0048	mg/L	B	0.0035	0.010	SW-846 6010B	P
Barium	0.068	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.00060	mg/L	B	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	181	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.019	mg/L		0.00034	0.010	SW-846 6010B	P
Cobalt	0.011	mg/L	B	0.00052	0.050	SW-846 6010B	P
Copper	0.032	mg/L		0.0017	0.025	SW-846 6010B	P
Iron	24.0	mg/L		0.027	0.10	SW-846 6010B	P
Lead	0.014	mg/L		0.0028	0.0030	SW-846 6010B	P
Magnesium	86.8	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.63	mg/L		0.00083	0.015	SW-846 6010B	P
Mercury	0.00017	mg/L	B	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.024	mg/L	B	0.00084	0.040	SW-846 6010B	P
Potassium	6.07	mg/L		0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	26.1	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.031	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.060	mg/L		0.0059	0.020	SW-846 6010B	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids:
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW65-1036
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261306
 Date Collected: 09/23/11 Time: 0925

Analyte Concentration Units C MDL PQL Method Type

Aluminum (Dissolved)	0.034	mg/L	B	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.029	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00015	mg/L	B	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	144	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.00068	mg/L	B	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.014	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.23	mg/L		0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	82.2	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.0025	mg/L	B	0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0016	mg/L	B	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	3.88	mg/L	B	0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	25.4	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.013	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW63-1036
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261307
 Date Collected: 09/23/11 Time: 0945

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.096	mg/L	B	0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.049	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	252	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00034	0.010	SW-846 6010B	P
Cobalt	0.0011	mg/L	B	0.00052	0.050	SW-846 6010B	P
Copper	0.014	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	0.26	mg/L		0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	58.7	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	1.61	mg/L		0.00083	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.0030	mg/L	B	0.00084	0.040	SW-846 6010B	P
Potassium	5.88	mg/L		0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	46.6	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.015	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0059	0.020	SW-846 6010B	P

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FORM I - IN

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Matrix: (soil / water) Water
 Level: (low / med) % Solids:
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW63-1036
 Contract:
 SAS No.: SDG No.: 211092613
 Lab Sample ID: 21109261307
 Date Collected: 09/23/11 Time: 0945

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.0049	mg/L	B	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.047	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	225	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0017	mg/L	B	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.014	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.10	mg/L	U	0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	61.2	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	1.70	mg/L		0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0042	mg/L	B	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	5.90	mg/L		0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	47.7	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.013	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW61-1036
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261308
 Date Collected: 09/23/11 Time: 1000

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.60	mg/L		0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.046	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	321	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.0013	mg/L	B	0.00034	0.010	SW-846 6010B	P
Cobalt	0.00066	mg/L	B	0.00052	0.050	SW-846 6010B	P
Copper	0.015	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	0.90	mg/L		0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	65.2	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.16	mg/L		0.00083	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.0054	mg/L	B	0.00084	0.040	SW-846 6010B	P
Potassium	11.7	mg/L		0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	49.9	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.016	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.0093	mg/L	B	0.0059	0.020	SW-846 6010B	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW61-1036
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261308
 Date Collected: 09/23/11 Time: 1000

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.036	mg/L	B	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.0052	mg/L	B	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.045	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00041	mg/L	B	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	332	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.00063	mg/L	B	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.014	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.10	mg/L	U	0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	71.0	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.37	mg/L		0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0052	mg/L	B	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	11.8	mg/L		0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	53.7	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.013	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.016	mg/L	B	0.0059	0.020	SW-846 6010B Dissolved	P

Aluminum (Dissolved)	0.036	mg/L	B	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.0052	mg/L	B	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.045	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00041	mg/L	B	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	332	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.00063	mg/L	B	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.014	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.10	mg/L	U	0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	71.0	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.37	mg/L		0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0052	mg/L	B	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	11.8	mg/L		0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	53.7	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.013	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.016	mg/L	B	0.0059	0.020	SW-846 6010B Dissolved	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-FD-1036 (GW61)
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Water SAS No.: SDG No.: 211092613
 Level: (low / med) % Solids: Lab Sample ID: 21109261309
 Date Received: 09/24/11 Time: 0905 Date Collected: 09/23/11 Time: 1005

Analyte **Concentration** **Units** **C** **MDL** **PQL** **Method** **Type**

Aluminum (Dissolved)	0.044	mg/L	B	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.041	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00021	mg/L	B	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	281	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.00042	mg/L	B	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.014	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.20	mg/L		0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	70.2	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.19	mg/L		0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0051	mg/L	B	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	11.7	mg/L		0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	56.5	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.017	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.012	mg/L	B	0.0059	0.020	SW-846 6010B Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-FD-1036 (GW61)
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261309
 Date Collected: 09/23/11 Time: 1005

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.70	mg/L		0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.047	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	326	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.0014	mg/L	B	0.00034	0.010	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00052	0.050	SW-846 6010B	P
Copper	0.016	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	1.02	mg/L		0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	66.3	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.16	mg/L		0.00083	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.0060	mg/L	B	0.00084	0.040	SW-846 6010B	P
Potassium	11.8	mg/L		0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	50.8	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.016	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.0094	mg/L	B	0.0059	0.020	SW-846 6010B	P

FORM I - IN

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW59-1036
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261310
 Date Collected: 09/23/11 Time: 1015

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.043	mg/L	B	0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.048	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	186	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.00036	mg/L	B	0.00034	0.010	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00052	0.050	SW-846 6010B	P
Copper	0.011	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	0.048	mg/L	B	0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	38.1	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.012	mg/L	B	0.00083	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.040	mg/L	U	0.00084	0.040	SW-846 6010B	P
Potassium	17.4	mg/L		0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	89.7	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.012	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0059	0.020	SW-846 6010B	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 Matrix: (soil / water) Water
 Level: (low / med) % Solids:
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW59-1036
 Contract:
 SAS No.: SDG No.: 211092613
 Lab Sample ID: 21109261310
 Date Collected: 09/23/11 Time: 1015

Analyte Concentration Units C MDL PQL Method Type

Aluminum (Dissolved)	0.032	mg/L	B	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.048	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	167	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.010	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.10	mg/L	U	0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	38.7	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.0025	mg/L	B	0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.040	mg/L	U	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	16.8	mg/L		0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	91.2	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.012	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

FORM I - IN

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12/12/14
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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW58-1036
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Water SAS No.: SDG No.: 211092613
 Level: (low / med) % Solids: Lab Sample ID: 21109261311
 Date Received: 09/24/11 Time: 0905 Date Collected: 09/23/11 Time: 1030

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.12	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	83.6	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.0093	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.10	mg/L	U	0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	29.2	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.0034	mg/L	B	0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.040	mg/L	U	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	3.70	mg/L	B	0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	25.5	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.011	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW58-1036
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261311
 Date Collected: 09/23/11 Time: 1030

Analyte Concentration Units C MDL PQL Method Type

Aluminum	1.58	mg/L		0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.12	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.00014	mg/L	B	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	106	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.0026	mg/L	B	0.00034	0.010	SW-846 6010B	P
Cobalt	0.00068	mg/L	B	0.00052	0.050	SW-846 6010B	P
Copper	0.012	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	2.92	mg/L		0.027	0.10	SW-846 6010B	P
Lead	0.0028	mg/L	B	0.0028	0.0030	SW-846 6010B	P
Magnesium	30.7	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.12	mg/L		0.00083	0.015	SW-846 6010B	P
Mercury	0.00010	mg/L	B	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.013	mg/L	B	0.00084	0.040	SW-846 6010B	P
Potassium	4.09	mg/L	B	0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	24.4	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.013	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.027	mg/L		0.0059	0.020	SW-846 6010B	P

12/10/14
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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW07R
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261314
 Date Collected: 09/23/11 Time: 1055

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.086	mg/L	B	0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.058	mg/L	B	0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	200	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00034	0.010	SW-846 6010B	P
Cobalt	0.0011	mg/L	B	0.00052	0.050	SW-846 6010B	P
Copper	0.011	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	2.76	mg/L		0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	35.3	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	1.33	mg/L		0.00083	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.0026	mg/L	B	0.00084	0.040	SW-846 6010B	P
Potassium	2.61	mg/L	B	0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	13.2	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.012	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.010	mg/L	B	0.0059	0.020	SW-846 6010B	P

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INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW07R
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Water SAS No.: SDG No.: 211092613
 Level: (low / med) % Solids: Lab Sample ID: 21109261314
 Date Received: 09/24/11 Time: 0905 Date Collected: 09/23/11 Time: 1055

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.049	mg/L	B	0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	192	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.0020	mg/L	B	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.0090	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	2.50	mg/L		0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	35.2	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	1.65	mg/L		0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00008	mg/L	B	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.0020	mg/L	B	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	2.27	mg/L	B	0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	12.9	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.011	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 Matrix: (soil / water) Water
 Level: (low / med) % Solids: _____
 Date Received: 09/24/11 Time: 0905
 Sample ID: SK-GW26-1036
 Contract: _____
 SAS No.: _____ SDG No.: 211092613
 Lab Sample ID: 21109261315
 Date Collected: 09/23/11 Time: 1110

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.043	mg/L	B	0.024	0.20	SW-846 6010B	P
Antimony	0.060	mg/L	U	0.0040	0.060	SW-846 6010B	P
Arsenic	0.010	mg/L	U	0.0035	0.010	SW-846 6010B	P
Barium	0.45	mg/L		0.0016	0.20	SW-846 6010B	P
Beryllium	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	66.3	mg/L		0.024	5.00	SW-846 6010B	P
Chromium	0.010	mg/L	U	0.00034	0.010	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00052	0.050	SW-846 6010B	P
Copper	0.0095	mg/L	B	0.0017	0.025	SW-846 6010B	P
Iron	0.41	mg/L		0.027	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B	P
Magnesium	35.9	mg/L		0.012	5.00	SW-846 6010B	P
Manganese	0.071	mg/L		0.00083	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A	AV
Nickel	0.040	mg/L	U	0.00084	0.040	SW-846 6010B	P
Potassium	18.5	mg/L		0.041	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B	P
Silver	0.010	mg/L	U	0.00064	0.010	SW-846 6010B	P
Sodium	179	mg/L		0.056	5.00	SW-846 6010B	P
Thallium	0.010	mg/L	U	0.0026	0.010	SW-846 6010B	P
Vanadium	0.012	mg/L	B	0.0012	0.050	SW-846 6010B	P
Zinc	0.020	mg/L	U	0.0059	0.020	SW-846 6010B	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW26-1036
 Lab Code: LA024 Case No.: Contract:
 Matrix: (soil / water) Water SAS No.: SDG No.: 211092613
 Level: (low / med) % Solids: Lab Sample ID: 21109261315
 Date Received: 09/24/11 Time: 0905 Date Collected: 09/23/11 Time: 1110

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum (Dissolved)	0.20	mg/L	U	0.024	0.20	SW-846 6010B Dissolved	P
Antimony (Dissolved)	0.060	mg/L	U	0.0040	0.060	SW-846 6010B Dissolved	P
Arsenic (Dissolved)	0.010	mg/L	U	0.0035	0.010	SW-846 6010B Dissolved	P
Barium (Dissolved)	0.47	mg/L		0.0016	0.20	SW-846 6010B Dissolved	P
Beryllium (Dissolved)	0.0050	mg/L	U	0.000082	0.0050	SW-846 6010B Dissolved	P
Cadmium (Dissolved)	0.00048	mg/L	B	0.00010	0.0050	SW-846 6010B Dissolved	P
Calcium (Dissolved)	56.9	mg/L		0.024	5.00	SW-846 6010B Dissolved	P
Chromium (Dissolved)	0.010	mg/L	U	0.00034	0.010	SW-846 6010B Dissolved	P
Cobalt (Dissolved)	0.050	mg/L	U	0.00052	0.050	SW-846 6010B Dissolved	P
Copper (Dissolved)	0.0091	mg/L	B	0.0017	0.025	SW-846 6010B Dissolved	P
Iron (Dissolved)	0.14	mg/L		0.027	0.10	SW-846 6010B Dissolved	P
Lead (Dissolved)	0.0030	mg/L	U	0.0028	0.0030	SW-846 6010B Dissolved	P
Magnesium (Dissolved)	37.4	mg/L		0.012	5.00	SW-846 6010B Dissolved	P
Manganese (Dissolved)	0.075	mg/L		0.00083	0.015	SW-846 6010B Dissolved	P
Mercury (Dissolved)	0.00020	mg/L	U	0.000075	0.00020	SW-846 7470A Dissolved	AV
Nickel (Dissolved)	0.040	mg/L	U	0.00084	0.040	SW-846 6010B Dissolved	P
Potassium (Dissolved)	19.2	mg/L		0.041	5.00	SW-846 6010B Dissolved	P
Selenium (Dissolved)	0.0050	mg/L	U	0.0038	0.0050	SW-846 6010B Dissolved	P
Silver (Dissolved)	0.010	mg/L	U	0.00064	0.010	SW-846 6010B Dissolved	P
Sodium (Dissolved)	184	mg/L		0.056	5.00	SW-846 6010B Dissolved	P
Thallium (Dissolved)	0.010	mg/L	U	0.0026	0.010	SW-846 6010B Dissolved	P
Vanadium (Dissolved)	0.013	mg/L	B	0.0012	0.050	SW-846 6010B Dissolved	P
Zinc (Dissolved)	0.020	mg/L	U	0.0059	0.020	SW-846 6010B Dissolved	P

GCAL ID 21109261301	Client ID SK-SW50-1036	Matrix Water	Collect Date/Time 09/22/2011 13:50	Receive Date/Time 09/24/2011 09:05
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SW-846 9012A Cyanide

Prep Date 09/27/2011 12:00	Prep Batch 466031	Prep Method SW-846 9012A	Dilution 1	Analyzed 09/29/2011 15:21	By AEL	Analytical Batch 466256
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CAS# 57-12-5	Parameter Total Cyanide	Result 0.0050U	RDL 0.0050	MDL 0.0006	Units mg/L
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GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109261304	SK-SW52-1036	Water	09/22/2011 14:35	09/24/2011 09:05

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/27/2011 12:00	466031	SW-846 9012A	1	09/29/2011 15:25	AEL	466256

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0006B	0.0050	0.0006	mg/L

GCAL ID 21109261305	Client ID SK-FD-1036 (SW52)	Matrix Water	Collect Date/Time 09/22/2011 14:35	Receive Date/Time 09/24/2011 09:05
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SW-846 9012A Cyanide

Prep Date 09/27/2011 12:00	Prep Batch 466031	Prep Method SW-846 9012A	Dilution 1	Analyzed 09/29/2011 15:26	By AEL	Analytical Batch 466256
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CAS# 57-12-5	Parameter Total Cyanide	Result 0.0050U	RDL 0.0050	MDL 0.0006	Units mg/L
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GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109261307	SK-GW63-1036	Water	09/23/2011 09:45	09/24/2011 09:05

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/27/2011 12:00	466031	SW-846 9012A	1	09/29/2011 15:28	AEL	466256

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0013B	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109261308	SK-GW61-1036	Water	09/23/2011 10:00	09/24/2011 09:05

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/27/2011 12:00	466031	SW-846 9012A	1	09/29/2011 15:29	AEL	466256

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0009B	0.0050	0.0006	mg/L

GCAL ID 21109261309	Client ID SK-FD-1036 (GW61)	Matrix Water	Collect Date/Time 09/23/2011 10:05	Receive Date/Time 09/24/2011 09:05
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SW-846 9012A Cyanide

Prep Date 09/27/2011 12:00	Prep Batch 466031	Prep Method SW-846 9012A	Dilution 1	Analyzed 09/29/2011 15:30	By AEL	Analytical Batch 466256
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CAS# 57-12-5	Parameter Total Cyanide	Result 0.0026B	RDL 0.0050	MDL 0.0006	Units mg/L
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GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109261310	SK-GW59-1036	Water	09/23/2011 10:15	09/24/2011 09:05

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/27/2011 12:00	466031	SW-846 9012A	1	09/29/2011 15:31	AEL	466256

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0012B	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109261311	SK-GW58-1036	Water	09/23/2011 10:30	09/24/2011 09:05

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/27/2011 12:00	466031	SW-846 9012A	1	09/29/2011 15:32	AEL	466256

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0007B	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109261314	SK-GW07R	Water	09/23/2011 10:55	09/24/2011 09:05

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/27/2011 12:00	466031	SW-846 9012A	1	09/29/2011 15:35	AEL	466256

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0013B	0.0050	0.0006	mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21109261315	SK-GW26-1036	Water	09/23/2011 11:10	09/24/2011 09:05

SW-846 9012A Cyanide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/27/2011 12:00	466031	SW-846 9012A	1	09/29/2011 15:36	AEL	466256

CAS#	Parameter	Result	RDL	MDL	Units
57-12-5	Total Cyanide	0.0008B	0.0050	0.0006	mg/L